Open Source Used In Cisco Unified Communication Manager 14SU1 MFG

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1.6 zlib 1.2.6

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1.8 rpm 4.11.3 43.el7

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numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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1.9 jettison 1.2
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concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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

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

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that is part of the Library, the object code for the work may be a
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Library will still fall under Section 6.)

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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
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machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
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1.15 tiles-request-api 1.0.7

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
    || strcmp(license, "GPL v2") == 0
    || strcmp(license, "GPL and additional rights") == 0
    || strcmp(license, "Dual BSD/GPL") == 0
    || strcmp(license, "Dual MIT/GPL") == 0
    || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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

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  *
* M. Welsh, 6 July 1996
*
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- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
  single nxt200x frontend driver.

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

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

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

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agic@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the
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1.33 jackson-databind 2.11.2
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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f1c9645db14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2d055067c18f2c9 bsd.img

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

Device Boot Start End Blocks Id System
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

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

Device Boot Start End Blocks Id System
__ts_dev__ 1 2048 4095 1024 83 Linux
-------------------
Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbd.img

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

Device Boot Start End Blocks Id System
__ts_dev__ 1 2048 4095 1024 83 Linux
__ts_dev__ 2 4096 20479 8192 a5 FreeBSD
-------------------
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsise bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
h5c121c2091b2ff26b880551feac7112 bsd.img

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

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsiz bsize   cpg]
 a:     4096      6144      2049     4.2BSD        0     0     0
 c:     4096     20479     16384     unused        0     0
 d:        0     16064     16065     unused        0     0

 BSD disklabel command (m for help):
Command (m for help):
-------------------

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

Command (m for help):

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

BSD disklabel command (m for help):

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1.36 openssh 7.5-p1

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* 
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Better unicode support for filepost using StringIO buffers
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  * Allowed to skip SSL hostname verification

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  * Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

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  * HTTPResponse.tell() for determining amount received over the wire

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  * HTTPHeaderDict and associated tests and docs
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  * Added Timeout examples in docs

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* Support for standard library io module.

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

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

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

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

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

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

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
* App Engine environment tests.
  * Documentation re-write.

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

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

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

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

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

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

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

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

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

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

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

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

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

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

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

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.
* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

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

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

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

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

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

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

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

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

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

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

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

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

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

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

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
* Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
* Allow cadata parameter to be passed to underlying ```SSLContext.load_verify_locations()```.

* Keiichi Kobayashi <abok.1k@gmail.com>
* Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
* DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
* Test improvements

* Chris Olufson <stycarac@gmail.com>
* Fix for connection not being released on HTTP redirect and response not preloaded

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

1.41 linux-kernel 2.4.20
1.41.1 Available under license:

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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  jar/org/slf4j/impl/StaticMDCBinder.java
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  jar/org/slf4j/impl/JDK14LoggerFactory.java

1.50 libthai 0.1.14 9.el7
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jar/com/amazonaws/annotation/package-info.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/annotation/Beta.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/annotation/SdkInternalApi.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/annotation/SdkProtectedApi.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/annotation/SdkTestInternalApi.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/internal/SdkSSLContext.java

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/SdkClock.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/presign/PresignerParams.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/retry/PredefinedBackoffStrategies.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/StringInputStream.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/regions/InstanceMetadataRegionProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/profile/path/cred/CredentialsDefaultLocationProvider.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/StaticCredentialsProvider.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/client/builder/AwsAsyncClientBuilder.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/RequestConfig.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/DateTimeJsonSerializer.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/timers/package-info.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/regions/ServiceAbbreviations.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/regions/Regions.java

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 */
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 * Interface for providing AWS region information. Implementations are free to use any strategy for
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 */

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  jar/com/amazonaws/retry/internal/CredentialsEndpointRetryPolicy.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/BasicSessionCredentials.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/ClassLoaderHelper.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/metrics/MetricAdmin.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTaskImpl.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTrackerImpl.java
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jar/com/amazonaws/internal/SdkInternalMap.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTracker.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/regions/RegionMetadataFactory.java
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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
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1.66 linux-kernel 3.4.110

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* */
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
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for the nxt2004 frontend driver

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1.67 mtr 0.85 7.el7

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1.68 bash 4.2.46 33.el7
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Return-Path: friedman@cli.com
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   id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
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   id AA27213; Thu, 25 May 95 11:18:25 CDT
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Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

} Subject: ksh scripts
} From: odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

--
"The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

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#

# This file implements tests to verify that the “testable statements” in
# the lang_select.html document are correct.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

if capable !compound {
    finish_test
    return
}

do_execsql_test e_select-1.0 {
    CREATE TABLE t1(a, b);
    INSERT INTO t1 VALUES('a', 'one');
    INSERT INTO t1 VALUES('b', 'two');
    INSERT INTO t1 VALUES('c', 'three');

    CREATE TABLE t2(a, b);
    INSERT INTO t2 VALUES('a', 'I');
    INSERT INTO t2 VALUES('b', 'II');
    INSERT INTO t2 VALUES('c', 'III');

    CREATE TABLE t3(a, c);
    INSERT INTO t3 VALUES('a', 1);
    INSERT INTO t3 VALUES('b', 2);

    CREATE TABLE t4(a, c);
    INSERT INTO t4 VALUES('a', NULL);
    INSERT INTO t4 VALUES('b', 2);
} {}

set t1_cross_t2 [list     
    a one   a one   b II   
    a one   c III   b two  a I    
    b two   b II    b two   c III  
    c three a I  c three b II  
    c three c III  
]

set t1_cross_t1 [list     
    a one   a one   a one   b two   
    a one   c three  b two  a one    
    b two   b two   b two   c three  
    c three a one  c three b two   
    c three c three  
]
# This proc is a specialized version of [do_execsql_test].
#
# The second argument to this proc must be a SELECT statement that
# features a cross join of some time. Instead of the usual ",", 
# "CROSS JOIN" or "INNER JOIN" join-op, the string %JOIN% must be 
# substituted.
#
# This test runs the SELECT three times - once with:
#
#   * s/%JOIN%/,/
#   * s/%JOIN%/JOIN/
#   * s/%JOIN%/INNER JOIN/
#   * s/%JOIN%/CROSS JOIN/
#
# and checks that each time the results of the SELECT are $res.
#
proc do_join_test {tn select res} {
    foreach {tn2 joinop} [list 1 , 2 "CROSS JOIN" 3 "INNER JOIN"] {
        set S [string map [list %JOIN% $joinop] $select]
        uplevel do_execsql_test $tn.$tn2 [list $S] [list $res]
    }
}

# The following tests check that all paths on the syntax diagrams on
# the lang_select.html page may be taken.
#
# EVIDENCE-OF: R-11353-33501 -- syntax diagram join-constraint
#
do_join_test e_select-0.1.1 {
    SELECT count(*) FROM t1 %JOIN% t2 ON (t1.a=t2.a)
} {3}
do_join_test e_select-0.1.2 {
    SELECT count(*) FROM t1 %JOIN% t2 USING (a)
} {3}
do_join_test e_select-0.1.3 {
    SELECT count(*) FROM t1 %JOIN% t2
} {9}
do_catchsql_test e_select-0.1.4 {
    SELECT count(*) FROM t1, t2 ON (t1.a=t2.a) USING (a)
} {1 [cannot have both ON and USING clauses in the same join]}
do_catchsql_test e_select-0.1.5 {
    SELECT count(*) FROM t1, t2 USING (a) ON (t1.a=t2.a)
} {1 [near "ON": syntax error]}

# EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core
#
# 0: SELECT ...
# 1: SELECT DISTINCT ...
# 2: SELECT ALL ...

# 0: No FROM clause
# 1: Has FROM clause

# 0: No WHERE clause
# 1: Has WHERE clause

# 0: No GROUP BY clause
# 1: Has GROUP BY clause
# 2: Has GROUP BY and HAVING clauses

do_select_tests e_select-0.2 {
0000.1 "SELECT 1, 2, 3 " {1 2 3}
1000.1 "SELECT DISTINCT 1, 2, 3 " {1 2 3}
2000.1 "SELECT ALL 1, 2, 3 " {1 2 3}

0100.1 "SELECT a, b, a||b FROM t1 " {
    a one aone b two btwo c three cthree
}
1100.1 "SELECT DISTINCT a, b, a||b FROM t1 " {
    a one aone b two btwo c three cthree
}
1200.1 "SELECT ALL a, b, a||b FROM t1 " {
    a one aone b two btwo c three cthree
}

0010.1 "SELECT 1, 2, 3 WHERE 1 " {1 2 3}
0010.2 "SELECT 1, 2, 3 WHERE 0 " {}
0010.3 "SELECT 1, 2, 3 WHERE NULL " {}

1010.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 " {1 2 3}
2010.1 "SELECT ALL 1, 2, 3 WHERE 1 " {1 2 3}

0110.1 "SELECT a, b, a||b FROM t1 WHERE a!='x' " {
    a one aone b two btwo c three cthree
}
0110.2 "SELECT a, b, a||b FROM t1 WHERE a=='x'" {}

1110.1 "SELECT DISTINCT a, b, a||b FROM t1 WHERE a!='x' " {
    a one aone b two btwo c three cthree
}
2110.0 "SELECT ALL a, b, a||b FROM t1 WHERE a=='x'" {}
1001.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2" {1 2 3}
1002.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
1002.2 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

2001.1 "SELECT ALL 1, 2, 3 GROUP BY 2" {1 2 3}
2002.1 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
2002.2 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

0101.1 "SELECT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
0102.1 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}
0102.2 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)>1" {}

1101.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
1102.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}
1102.2 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)>1" {}

2101.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
2102.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}
2102.2 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b HAVING count(*)>1" {}

0011.1 "SELECT 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
0012.1 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
0012.2 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count()>1" {}

1011.1 "SELECT DISTINCT 1, 2, 3 WHERE 0 GROUP BY 2" {}
1012.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 GROUP BY 2 HAVING count(*)=1" 
   {1 2 3}
1012.2 "SELECT DISTINCT 1, 2, 3 WHERE NULL GROUP BY 2 HAVING count()>1" {}

2011.1 "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
2012.1 "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
2012.2 "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" {}
0111.1 "SELECT count(*), max(a) FROM t1 WHERE a='a' GROUP BY b" {1 a}
0112.1 "SELECT count(*), max(a) FROM t1
WHERE a='c' GROUP BY b HAVING count(*)=1" {1 c}
0112.2 "SELECT count(*), max(a) FROM t1
WHERE 0 GROUP BY b HAVING count(*)=2" { }
1111.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a<'c' GROUP BY b"
{1 a 1 b}
1112.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a>'a'
GROUP BY b HAVING count(*)=1" {1 c 1 b}
1112.2 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE 0
GROUP BY b HAVING count(*)=2" { }

2111.1 "SELECT ALL count(*), max(a) FROM t1 WHERE b>'one' GROUP BY b"
{1 c 1 b}
2112.1 "SELECT ALL count(*), max(a) FROM t1 WHERE a!='b'
GROUP BY b HAVING count(*)=1" {1 a 1 c}
2112.2 "SELECT ALL count(*), max(a) FROM t1
WHERE 0 GROUP BY b HAVING count(*)=2" { }

# EVIDENCE-OF: R-41378-26734 -- syntax diagram result-column
#
do_select_tests e_select-0.3 {
  1 "SELECT * FROM t1" {a one b two c three}
  2 "SELECT t1.* FROM t1" {a one b two c three}
  3 "SELECT 'x'||a||'x' FROM t1" {xax xbx xcx}
  4 "SELECT 'x'||a||'x' alias FROM t1" {xax xbx xcx}
  5 "SELECT 'x'||a||'x' AS alias FROM t1" {xax xbx xcx}
}

# EVIDENCE-OF: R-43129-35648 -- syntax diagram join-source
#
# EVIDENCE-OF: R-36683-37460 -- syntax diagram join-op
#
do_select_tests e_select-0.4 {
  1 "SELECT t1.rowid FROM t1" {1 2 3}
  2 "SELECT t1.rowid FROM t1,t2" {1 1 1 2 2 2 3 3 3}
  3 "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3}
  4 "SELECT t1.rowid FROM t1" {1 2 3}
  5 "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 2 2 2 3 3 3}

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SELECT t1.rowid FROM t1 JOIN t2 JOIN t3
{1 1 1 1 2 2 2 2 3 3 3 3 3 3 3}

SELECT t1.rowid FROM t1 NATURAL JOIN t3 {1 2}
SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3 {1 2 3}
SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3 {1 2}
SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3 {1 2 3}
SELECT t1.rowid FROM t1 JOIN t3 {1 1 2 2 3 3 3 3}
SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3 {1 1 2 2 3 3}
SELECT t1.rowid FROM t1 LEFT JOIN t3 {1 1 2 2 3 3}
SELECT t1.rowid FROM t1 INNER JOIN t3 {1 1 2 2 3 3}
SELECT t1.rowid FROM t1 CROSS JOIN t3 {1 1 2 2 3 3}

SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4 {1 2 3 3 4}
SELECT rowid FROM t1 UNION SELECT rowid+2 FROM t4 {1 2 3 4}
SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4 {3}
SELECT rowid FROM t1 EXCEPT SELECT rowid+2 FROM t4 {1 2}

SELECT b||a FROM t1 ORDER BY b||a                   {onea threec twob}
SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase {onea threec twob}
SELECT b||a FROM t1 ORDER BY (b||a) ASC             {onea threec twob}
SELECT b||a FROM t1 ORDER BY (b||a) DESC           {twob threeec onea}

SELECT * FROM t1 {a one b two c three}
SELECT * FROM t1 ORDER BY b" {a one c three b two}
SELECT * FROM t1 ORDER BY b, a" {a one c three b two}
SELECT * FROM t1 LIMIT 10" {a one b two c three}
SELECT * FROM t1 LIMIT 10 OFFSET 5" {} 
SELECT * FROM t1 LIMIT 10, 5" {} 
SELECT * FROM t1 ORDER BY a LIMIT 10" {a one b two c three}
SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5" {} 
SELECT * FROM t1 ORDER BY a,b LIMIT 10, 5" {}
"SELECT * FROM t1 UNION SELECT b, a FROM t1"
   {a one b two c three one a three c two b}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b"
   {one a two b three c a one c three b two}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a"
   {one a two b three c a one c three b two}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10"
   {a one b two c three one a three c two b}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5"
   {two b}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5"
   {}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10"
   {b two}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a,b LIMIT 10, 5"
   {}

# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple
# SELECT statement, then the input data is implicitly a single row zero
# columns wide
#
do_select_tests e_select-1.1 {
   1 "SELECT 'abc'"            {abc}
   2 "SELECT 'abc' WHERE NULL" {}
   3 "SELECT NULL"             {{}}
   4 "SELECT count(*)"         {1}
   5 "SELECT count(*) WHERE 0" {0}
   6 "SELECT count(*) WHERE 1" {1}
}

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.
#
# The results of the SELECT queries suggest that they are operating on the
# contents of the table 'xx'.
#
do_excsq1_test e_select-1.2.0 {
   CREATE TABLE xx(x, y);
   INSERT INTO xx VALUES('IiJsIPepMuAhU', X'10B00B897A15BAA02E3F98DCE8F2');
INSERT INTO xx VALUES(NULL, -16.87);
INSERT INTO xx VALUES(-17.89, 'linguistically');
}
}
do_select_tests e_select-1.2 {
1 "SELECT quote(x), quote(y) FROM xx" {
'IiJlsIPepMuAhU' X'10B00B897A15BAA02E3F98DCE8F2'
NULL -16.87
-17.89 'linguistically'
}
2 "SELECT count(*), count(x), count(y) FROM xx" {3 2 3}
3 "SELECT sum(x), sum(y) FROM xx" {-17.89 -16.87}
}
#
# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
# There are more detailed tests for subsequent requirements that add
# more detail to this idea. We just add a single test that shows that
# data is coming from each of the three tables following the FROM clause
# here to show that the statement, vague as it is, is not incorrect.
#
do_select_tests e_select-1.3 {
1 "SELECT * FROM t1, t2, t3" {
 a one a I a 1 a one a 1 b 2 a one b 1 a 1
 a one b II b 2 a one c III a 1 a one c III b 2
 b two a I a 1 b two a I b 2 b two b II a 1
 b two b II b 2 b two c III a 1 b two c III b 2
 c three a I a 1 c three a I b 2 c three b II a 1
 c three b II b 2 c three c III a 1 c three c III b 2
}
}
#
# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (","), and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
# The tests are built on this assertion. Really, they test that the output
# of a CROSS JOIN, JOIN, INNER JOIN or "," join matches the expected result
# of calculating the cartesian product of the left and right-hand datasets.
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and "," join operators.
#
# EVIDENCE-OF: R-07544-24155 The "CROSS JOIN" join operator produces the
# same data as the "INNER JOIN", "JOIN" and "," operators
#
# All tests are run 4 times, with the only difference in each run being
# which of the 4 equivalent cartesian product join operators are used.
# Since the output data is the same in all cases, we consider that this
# qualifies as testing the two statements above.
#
do_execsql_test e_select-1.4.0 {
  CREATE TABLE x1(a, b);
  CREATE TABLE x2(c, d, e);
  CREATE TABLE x3(f, g, h, i);

  -- x1: 3 rows, 2 columns
  INSERT INTO x1 VALUES(24, 'converging');
  INSERT INTO x1 VALUES(NULL, X'CB71');
  INSERT INTO x1 VALUES('blonds', 'proprietary');

  -- x2: 2 rows, 3 columns
  INSERT INTO x2 VALUES(-60.06, NULL, NULL);
  INSERT INTO x2 VALUES(-58, NULL, 1.21);

  -- x3: 5 rows, 4 columns
  INSERT INTO x3 VALUES(-39.24, NULL, 'encompass', -1);
  INSERT INTO x3 VALUES('presenting', 51, 'reformation', 'dignified');
  INSERT INTO x3 VALUES('conducting', -87.24, 37.56, NULL);
  INSERT INTO x3 VALUES('coldest', -96, 'dramatists', 82.3);
  INSERT INTO x3 VALUES('alerting', NULL, -93.79, NULL);
} {}

# EVIDENCE-OF: R-59089-25828 The columns of the cartesian product
data set are, in order, all the columns of the left-hand dataset
# followed by all the columns of the right-hand dataset.
#
do_join_test e_select-1.4.1.1 {
  SELECT * FROM x1 %JOIN% x2 LIMIT 1
} [concat {24 converging} {-60.06 {} {}}]

do_join_test e_select-1.4.1.2 {
  SELECT * FROM x2 %JOIN% x1 LIMIT 1
} [concat {-60.06 {} {}} {24 converging}]

do_join_test e_select-1.4.1.3 {
  SELECT * FROM x3 %JOIN% x2 LIMIT 1


do_join_test e_select-1.4.1.4 {
  SELECT * FROM x2 %JOIN% x3 LIMIT 1
} [concat {-39.24 {} encompass -1} {-60.06 {} {}}]

# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product
# dataset formed by combining each unique combination of a row from the
# left-hand and right-hand datasets.
#
do_join_test e_select-1.4.2.1 {
  SELECT * FROM x2 %JOIN% x3
} [list -60.06 {} {} -39.24 {} encompass -1]

# TODO: Come back and add a few more like the above.

# EVIDENCE-OF: R-20659-43267 In other words, if the left-hand dataset
# consists of Nlhs rows of Mlhs columns, and the right-hand dataset of
# Nrhs rows of Mrhs columns, then the cartesian product is a dataset of
# Nlhs.Nrhs rows, each containing Mlhs+Mrhs columns.
#
# x1, x2 (Nlhs=3, Nrhs=2) (Mlhs=2, Mrhs=3)
do_join_test e_select-1.4.3.1 {
  SELECT count(*) FROM x1 %JOIN% x2
} [expr 3*2]
do_test e_select-1.4.3.2 {
  expr [{llength [execsql {SELECT * FROM x1, x2}] / 6}]
} [expr 2+3]

# x2, x3 (Nlhs=2, Nrhs=5) (Mlhs=3, Mrhs=4)
do_join_test e_select-1.4.3.3 {
  SELECT count(*) FROM x2 %JOIN% x3
} [expr 2*5]
do_test e_select-1.4.3.4 {
  expr [{llength [execsql {SELECT * FROM x2 JOIN x3}] / 10}]
} [expr 3+4]

# x3, x1 (Nlhs=5, Nrhs=3) (Mlhs=4, Mrhs=2)
do_join_test e_select-1.4.3.5 {


SELECT count(*) FROM x3 %JOIN% x1
} [expr 5*3]
do_test e_select-1.4.3.6 {
expt {{llength [execsql {SELECT * FROM x3 CROSS JOIN x1}] / 15}}
} [expr 4+2]

# x3, x3 (Nlhs=5, Nrhs=5) (Mlhs=4, Mrhs=4)
do_join_test e_select-1.4.3.7 {
SELECT count(*) FROM x3 %JOIN% x3
} [expr 5*5]
do_test e_select-1.4.3.8 {
expt {{llength [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}] / 25}}
} [expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y } $t1_cross_t1
do_select_tests e_select-1.4.5 [list
  1 { SELECT * FROM t1 CROSS JOIN t2 } $t1_cross_t2
  2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t1
  3 { SELECT * FROM t1 INNER JOIN t2 } $t1_cross_t2
  4 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t1
]

# EVIDENCE-OF: R-22775-56496 If there is an ON clause specified, then
# the ON expression is evaluated for each row of the cartesian product
# as a boolean expression. All rows for which the expression evaluates
# to false are excluded from the dataset.
#
foreach {tn select res} [list
  1 { SELECT * FROM t1 %JOIN% t2 ON (1) } $t1_cross_t2
  2 { SELECT * FROM t1 %JOIN% t2 ON (0) } [list]
  3 { SELECT * FROM t1 %JOIN% t2 ON (NULL) } [list]
  4 { SELECT * FROM t1 %JOIN% t2 ON ('abc') } [list]
  5 { SELECT * FROM t1 %JOIN% t2 ON ('1ab') } $t1_cross_t2
  6 { SELECT * FROM t1 %JOIN% t2 ON (0.9) } $t1_cross_t2
  7 { SELECT * FROM t1 %JOIN% t2 ON (0.9') } $t1_cross_t2
  8 { SELECT * FROM t1 %JOIN% t2 ON (0.0) } [list]
]
  9 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = t2.a) } [one I two II three III]
  10 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = 'a') } [one I one II one III]
  11 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (CASE WHEN t1.a = 'a' THEN NULL ELSE 1 END) } [one I one II one III]
do_join_test e_select-1.3.$tn $select $res

# EVIDENCE-OF: R-63358-54862 If there is a USING clause specified as part of the join-constraint, then each of the column names specified must exist in the datasets to both the left and right of the join-op.

#
do_select_tests e_select-1.4 -error {
cannot join using column %s - column not present in both tables
}

1 { SELECT * FROM t1, t3 USING (b) } "b"
2 { SELECT * FROM t3, t1 USING (c) } "c"
3 { SELECT * FROM t3, (SELECT a AS b, b AS c FROM t1) USING (a) } "a"

# EVIDENCE-OF: R-55987-04584 For each pair of namesake columns, the expression "lhs.X = rhs.X" is evaluated for each row of the cartesian product as a boolean expression. All rows for which one or more of the expressions evaluates to false are excluded from the result set.

#
do_select_tests e_select-1.5 {
1 { SELECT * FROM t1, t3 USING (a) } {a one 1 b two 2}
2 { SELECT * FROM t3, t4 USING (a,c) } {b 2}
}

# EVIDENCE-OF: R-54046-48600 When comparing values as a result of a USING clause, the normal rules for handling affinities, collation sequences and NULL values in comparisons apply.

#
# EVIDENCE-OF: R-35466-18578 The column from the dataset on the left-hand side of the join operator is considered to be on the left-hand side of the comparison operator (=) for the purposes of collation sequence and affinity precedence.

#
do_execsql_test e_select-1.6.0 {
CREATE TABLE t5(a COLLATE nocase, b COLLATE binary);
INSERT INTO t5 VALUES('AA', 'cc');
INSERT INTO t5 VALUES('BB', 'dd');
INSERT INTO t5 VALUES(NULL, NULL);
CREATE TABLE t6(a COLLATE binary, b COLLATE nocase);
INSERT INTO t6 VALUES('aa', 'cc');
INSERT INTO t6 VALUES('bb', 'DD');
INSERT INTO t6 VALUES(NULL, NULL);

foreach {tn select res} {
1 { SELECT * FROM t5 %JOIN% t6 USING (a) } {AA cc cc BB dd DD}
2 \{ SELECT * \text{ FROM } t6 \%JOIN\% t5 \text{ USING } (a) \} \{ \}
3 \{ SELECT * \text{ FROM } (SELECT a \text{ COLLATE nocase, b FROM t6}) \%JOIN\% t5 \text{ USING } (a) \}
   \{aa cc cc bb DD dd\}
4 \{ SELECT * \text{ FROM } t5 \%JOIN\% t6 \text{ USING } (a,b) \} \{AA cc\}
5 \{ SELECT * \text{ FROM } t6 \%JOIN\% t5 \text{ USING } (a,b) \} \{\}
\}
do_join_test e_select-1.6.$tn $select $res

# EVIDENCE-OF: R-57047-10461 For each pair of columns identified by a
# USING clause, the column from the right-hand dataset is omitted from
# the joined dataset.
#
# EVIDENCE-OF: R-56132-15700 This is the only difference between a USING
# clause and its equivalent ON constraint.
#
foreach \{tn select res\} {
  1a \{ SELECT * \text{ FROM } t1 \%JOIN\% t2 \text{ USING } (a) \}
     \{a one I b two II c three III\}
  1b \{ SELECT * \text{ FROM } t1 \%JOIN\% t2 \text{ ON } (t1.a=t2.a) \}
     \{a one a I b two b II c three c III\}
  2a \{ SELECT * \text{ FROM } t3 \%JOIN\% t4 \text{ USING } (a) \}
     \{a 1 \} b 2 2\}
  2b \{ SELECT * \text{ FROM } t3 \%JOIN\% t4 \text{ ON } (t3.a=t4.a) \}
     \{a 1 a \} b 2 b 2\}
  3a \{ SELECT * \text{ FROM } t3 \%JOIN\% t4 \text{ USING } (a,c) \}
     \{b 2\}
  3b \{ SELECT * \text{ FROM } t3 \%JOIN\% t4 \text{ ON } (t3.a=t4.a \text{ AND } t3.c=t4.c) \}
     \{b 2 b 2\}
  4a \{ SELECT * \text{ FROM } (SELECT a \text{ COLLATE nocase, b FROM t6}) \text{ AS } x
      \%JOIN\% t5 \text{ USING } (a) \}
     \{aa cc cc bb DD dd\}
  4b \{ SELECT * \text{ FROM } (SELECT a \text{ COLLATE nocase, b FROM t6}) \text{ AS } x
      \%JOIN\% t5 \text{ ON } (x.a=t5.a) \}
     \{aa cc AA cc bb DD BB dd\}
}\}
do_join_test e_select-1.7.$tn $select $res

# EVIDENCE-OF: R-41434-12448 If the join-op is a "LEFT JOIN" or "LEFT
# OUTER JOIN", then after the ON or USING filtering clauses have been
# applied, an extra row is added to the output for each row in the
# original left-hand input dataset that corresponds to no rows at all in
# the composite dataset (if any).
#
do_execsql_test e_select-1.8.0 {
CREATE TABLE t7(a, b, c);
CREATE TABLE t8(a, d, e);

INSERT INTO t7 VALUES('x', 'ex', 24);
INSERT INTO t7 VALUES('y', 'why', 25);

INSERT INTO t8 VALUES('x', 'abc', 24);
INSERT INTO t8 VALUES('z', 'ghi', 26);
}

# Evidence of: R-15607-52988 The added rows contain NULL values in the columns that would normally contain values copied from the right-hand input dataset.

# Evidence of: R-01809-52134 If the NATURAL keyword is added to any of the join-ops, then an implicit USING clause is added to the join-constraints. The implicit USING clause contains each of the column names that appear in both the left and right-hand input datasets.

---

do_select_tests e_select-1.8 {
1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)" {2}
2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}
2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2}
}

do_select_tests e_select-1.9 {

1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" {x ex 24 x abc 24}
1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
   {x ex 24 x abc 24 y why 25 {} {} {}}
2a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {} {}}

}

# Evidence of: R-01809-52134 If the NATURAL keyword is added to any of the join-ops, then an implicit USING clause is added to the join-constraints. The implicit USING clause contains each of the column names that appear in both the left and right-hand input datasets.

# Evidence of: R-01809-52134 If the NATURAL keyword is added to any of the join-ops, then an implicit USING clause is added to the join-constraints. The implicit USING clause contains each of the column names that appear in both the left and right-hand input datasets.

do_select_tests e_select-1.10 {
1a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
1b "SELECT * FROM t7 NATURAL JOIN t8" {x ex 24 abc 24}

2a "SELECT * FROM t8 JOIN t7 USING (a)" {x abc 24 ex 24}
2b "SELECT * FROM t8 NATURAL JOIN t7" {x abc 24 ex 24}

3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {} {}}
3b "SELECT * FROM t7 NATURAL LEFT JOIN t8" {x ex 24 abc 24 y why 25 {} {} {}}

4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)" {x abc 24 ex 24 z ghi 26 {} {} {}}
4b "SELECT * FROM t8 NATURAL LEFT JOIN t7" {x abc 24 ex 24 z ghi 26 {} {} {}}
5a "SELECT * FROM t3 JOIN t4 USING (a,c)"  
5b "SELECT * FROM t3 NATURAL JOIN t4"  

6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)"  
6b "SELECT * FROM t3 NATURAL LEFT JOIN t4"  

# EVIDENCE-OF: R-49566-01570 If the left and right-hand input datasets  
# feature no common column names, then the NATURAL keyword has no effect  
# on the results of the join.  
#  
do_execsql_test e_select-1.11.0 {  
  CREATE TABLE t10(x, y);  
  INSERT INTO t10 VALUES(1, 'true');  
  INSERT INTO t10 VALUES(0, 'false');  
}  
do_select_tests e_select-1-11 {  
1a "SELECT a, x FROM t1 CROSS JOIN t10"  
1b "SELECT a, x FROM t1 NATURAL CROSS JOIN t10"  
}  

# EVIDENCE-OF: R-39625-59133 A USING or ON clause may not be added to a  
# join that specifies the NATURAL keyword.  
#  
foreach {tn sql} {  
  1 {SELECT * FROM t1 NATURAL LEFT JOIN t2 USING (a)}  
  2 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (t1.a=t2.a)}  
  3 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (45)}  
}  
do_catchsql_test e_select-1.12.$tn "$sql"  
  "{1 {a NATURAL join may not have an ON or USING clause}}"  
}  

# The next block of tests - e_select-3.* - concentrate on verifying  
# statements made regarding WHERE clause processing.  
#  
drop_all_tables  
do_execsql_test e_select-3.0 {  
  CREATE TABLE x1(k, x, y, z);  
  INSERT INTO x1 VALUES(1, 'relinquished', 'aphasia', 78.43);  
  INSERT INTO x1 VALUES(2, X'A8E8D66F', X'07CF', -81);  
  INSERT INTO x1 VALUES(3, -22, -27.57, NULL);  
  INSERT INTO x1 VALUES(4, NULL, 'bygone', 'picky');  
  INSERT INTO x1 VALUES(5, NULL, 96.28, NULL);  
  INSERT INTO x1 VALUES(6, 0, 1, 2);
CREATE TABLE x2(k, x, y2);
INSERT INTO x2 VALUES(1, 50, X'B82838');
INSERT INTO x2 VALUES(5, 84.79, 65.88);
INSERT INTO x2 VALUES(3, -22, X'0E1BE452A393');
INSERT INTO x2 VALUES(7, 'mistrusted', 'standardized');
}

# EVIDENCE-OF: R-06999-14330 If a WHERE clause is specified, the WHERE
# expression is evaluated for each row in the input data as a boolean
# expression. All rows for which the WHERE clause expression evaluates
# to false are excluded from the dataset before continuing.
#
do_execsql_test e_select-3.1.1 { SELECT k FROM x1 WHERE x }         {3}
do_execsql_test e_select-3.1.2 { SELECT k FROM x1 WHERE y }         {3 5 6}
do_execsql_test e_select-3.1.3 { SELECT k FROM x1 WHERE z }         {1 2 6}
do_execsql_test e_select-3.1.4 { SELECT k FROM x1 WHERE '1'||z }     {1 2 4 6}
do_execsql_test e_select-3.1.5 { SELECT k FROM x1 WHERE x IS NULL }   {4 5}
do_execsql_test e_select-3.1.6 { SELECT k FROM x1 WHERE z - 78.43 }   {2 4 6}

do_execsql_test e_select-3.2.1a {
  SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {1 2 3 4 5 6}
do_execsql_test e_select-3.2.1b {
  SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k
} {1 3 5}
do_execsql_test e_select-3.2.2 {
  SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k IS NULL
} {2 4 6}

do_execsql_test e_select-3.2.3 {
  SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}
do_execsql_test e_select-3.2.4 {
  SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k-3
} {}

#--------------------------------------------------------------------------------
# Tests below this point are focused on verifying the testable statements
# related to calculating the result rows of a simple SELECT statement.
#
drop_all_tables
do_execsql_test e_select-4.0 {
  CREATE TABLE z1(a, b, c);
  CREATE TABLE z2(d, e);
  CREATE TABLE z3(a, b);

  INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
```sql
INSERT INTO z1 VALUES(-5, NULL, 75);
INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
INSERT INTO z1 VALUES(NULL, 67, 'quartets');
INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
INSERT INTO z1 VALUES(63, 'born', -26);

INSERT INTO z2 VALUES(NULL, 21);
INSERT INTO z2 VALUES(36, 6);

INSERT INTO z3 VALUES('subsistence', 'gauze');
INSERT INTO z3 VALUES(49.17, -67);
}

# EVIDENCE-OF: R-36327-17224 If a result expression is the special
# expression "*" then all columns in the input data are substituted for
# that one expression.
#
# EVIDENCE-OF: R-43693-30522 If the expression is the alias of a table
# or subquery in the FROM clause followed by ".*" then all columns from
# the named table or subquery are substituted for the single expression.
#
do_select_tests e_select-4.1 {
  1 "SELECT * FROM z1 LIMIT 1" {51.65 -59.58 belfries}
  2 "SELECT * FROM z1,z2 LIMIT 1" {51.65 -59.58 belfries {} 21}
  3 "SELECT z1.*, FROM z1,z2 LIMIT 1" {51.65 -59.58 belfries}
  4 "SELECT z2.*, FROM z1,z2 LIMIT 1" {{} 21}
  5 "SELECT z2.*, z1.* FROM z1,z2 LIMIT 1" {{} 21 51.65 -59.58 belfries}
  6 "SELECT count(*), * FROM z1" {6 63 born -26}
  7 "SELECT max(a), * FROM z1" {63 63 born -26}
  8 "SELECT *, min(a) FROM z1" {-5 {} 75 -5}
  9 "SELECT *, FROM z1,z2 LIMIT 1" {
      51.65 -59.58 belfries {} 21 51.65 -59.58 belfries {} 21
    }
 10 "SELECT z1.*,z1.* FROM z2,z1 LIMIT 1" {
      51.65 -59.58 belfries 51.65 -59.58 belfries
    }
}

# EVIDENCE-OF: R-61869-22578 It is an error to use a "*" or "alias.*"
# expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or
# "alias.*" expression in a simple SELECT query that does not have a
# FROM clause.
#
foreach {tn select err} {
```
1.1 "SELECT a, b, c FROM z1 WHERE *"  {near ": syntax error}
1.2 "SELECT a, b, c FROM z1 GROUP BY *"  {near ": syntax error}
1.3 "SELECT 1 + * FROM z1"  {near ": syntax error}
1.4 "SELECT * + 1 FROM z1"  {near ": syntax error}

2.1 "SELECT *" {no tables specified}
2.2 "SELECT * WHERE 1" {no tables specified}
2.3 "SELECT * WHERE 0" {no tables specified}
2.4 "SELECT count(*), *" {no tables specified}

} do_catchsql_test e_select-4.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-08669-22397 The number of columns in the rows returned
# by a simple SELECT statement is equal to the number of expressions in
# the result expression list after substitution of * and alias.*
# expressions.
#
foreach {tn select nCol} {
  1  "SELECT * FROM z1"  3
  2  "SELECT * FROM z1 NATURAL JOIN z3"  3
  3  "SELECT z1.* FROM z1 NATURAL JOIN z3"  3
  4  "SELECT z3.* FROM z1 NATURAL JOIN z3"  2
  5  "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3"  5
  6  "SELECT 1, 2, z1.* FROM z1"  5
  7  "SELECT a, *, b, c FROM z1"  6
} do_test e_select-4.3.$tn { sqlite3_column_count $::stmt } $nCol
sqlite3_finalize $::stmt

# In lang_select.html, a non-aggregate query is defined as any simple SELECT
# that has no GROUP BY clause and no aggregate expressions in the result
# expression list. Other queries are aggregate queries. Test cases
# e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of
# simple SELECT that is different for aggregate and non-aggregate queries
# verify (in a way) that these definitions are consistent:
#
# EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate
# query if it contains either a GROUP BY clause or one or more aggregate
# functions in the result-set.
#
# EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no
# aggregate functions or a GROUP BY clause, it is a non-aggregate query.
#
# EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate query, then each expression in the result expression list is evaluated for each row in the dataset filtered by the WHERE clause.

```
do_select_tests e_select-4.4 {
    1 "SELECT a, b FROM z1"
        {51.65 -59.58 -5 -2.2 -23.18 67 -1.04 -32.3 63 born}
    2 "SELECT a IS NULL, b+1, * FROM z1"
        {51.65 -59.58 belfries
         51.65 0 belfries
         0 51.65 -58.58 belfries
         0 -58.58 51.65 -59.58 belfries
         0 -5 {} -5 {} 75
         0 -22.18 -2.2 -23.18 suiters
         1 68 68 67 quartets
         68 67 quartets
         0 -31.3 -1.04 -32.3 aspen
         0 1 1 63 born -26}
    3 "SELECT 32*32, d\|e FROM z2" {1024 {1024 1024 366}}
}
```

# Test cases e_select-4.5.* and e_select-4.6.* together show that:

```
# EVIDENCE-OF: R-51988-01124 The single row of result-set data created by evaluating the aggregate and non-aggregate expressions in the result-set forms the result of an aggregate query without a GROUP BY clause.

# EVIDENCE-OF: R-57629-25253 If the SELECT statement is an aggregate query without a GROUP BY clause, then each aggregate expression in the result-set is evaluated once across the entire dataset.

```
do_select_tests e_select-4.5 {
    1 "SELECT count(a), max(a), count(b), max(b) FROM z1" {5 63 5 born}
    2 "SELECT count(*), max(1)" {1 1}
    3 "SELECT sum(b+1) FROM z1 NATURAL LEFT JOIN z3" {-43.06}
    4 "SELECT sum(b+2) FROM z1 NATURAL LEFT JOIN z3" {-38.06}
    5 "SELECT sum(b IS NOT NULL) FROM z1 NATURAL LEFT JOIN z3" {5}
}
```

# EVIDENCE-OF: R-26684-40576 Each non-aggregate expression in the result-set is evaluated once for an arbitrarily selected row of the dataset.

# EVIDENCE-OF: R-27994-60376 The same arbitrarily selected row is used
# for each non-aggregate expression.
#
# Note: The results of many of the queries in this block of tests are
# technically undefined, as the documentation does not specify which row
# SQLite will arbitrarily select to use for the evaluation of the
# non-aggregate expressions.
#
drop_all_tables
do_execsql_test e_select-4.6.0 {
  CREATE TABLE a1(one PRIMARY KEY, two);
  INSERT INTO a1 VALUES(1, 1);
  INSERT INTO a1 VALUES(2, 3);
  INSERT INTO a1 VALUES(3, 6);
  INSERT INTO a1 VALUES(4, 10);

  CREATE TABLE a2(one PRIMARY KEY, three);
  INSERT INTO a2 VALUES(1, 1);
  INSERT INTO a2 VALUES(3, 2);
  INSERT INTO a2 VALUES(6, 3);
  INSERT INTO a2 VALUES(10, 4);
} {}
do_select_tests e_select-4.6 {
  1 "SELECT one, two, count(*) FROM a1"                        {4 10 4}
  2 "SELECT one, two, count(*) FROM a1 WHERE one<3"            {2 3 2}
  3 "SELECT one, two, count(*) FROM a1 WHERE one>3"            {4 10 1}
  4 "SELECT *, count(*) FROM a1 JOIN a2"                       {4 10 10 4 16}
  5 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
  6 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
  7 "SELECT group_concat(three, "");, a1.* FROM a1 NATURAL JOIN a2" {12 3 6}
}

# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
# entirely of NULL values.
#
do_select_tests e_select-4.7 {
  1 "SELECT one, two, count(*) FROM a1 WHERE 0"       {{} {} 0}
  2 "SELECT sum(two), * FROM a1, a2 WHERE three>5"    {{} {} {} {} {}}
  3 "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7"  {1 1 1}
}

# EVIDENCE-OF: R-64138-28774 An aggregate query without a GROUP BY
# clause always returns exactly one row of data, even if there are zero
# rows of input data.
#
foreach {tn select} {


8.1 "SELECT count(*) FROM a1"
8.2 "SELECT count(*) FROM a1 WHERE 0"
8.3 "SELECT count(*) FROM a1 WHERE 1"
8.4 "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 1"
8.5 "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 0"

} {
# Set $nRow to the number of rows returned by $select:
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
set nRow 0
while {"SQLITE_ROW" == [sqlite3_step ::stmt]} { incr nRow }
set rc [sqlite3_finalize ::stmt]
# Test that $nRow==1 and that statement execution was successful
# (rc==SQLITE_OK).
do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}

drop_all_tables
do_execsql_test e_select-4.9.0 {
CREATE TABLE b1(one PRIMARY KEY, two);
INSERT INTO b1 VALUES(1, 'o');
INSERT INTO b1 VALUES(4, 'f');
INSERT INTO b1 VALUES(3, 't');
INSERT INTO b1 VALUES(2, 't');
INSERT INTO b1 VALUES(5, 'f');
INSERT INTO b1 VALUES(7, 's');
INSERT INTO b1 VALUES(6, 's');
CREATE TABLE b2(x, y);
INSERT INTO b2 VALUES(NULL, 0);
INSERT INTO b2 VALUES(NULL, 1);
INSERT INTO b2 VALUES('xyz', 2);
INSERT INTO b2 VALUES('abc', 3);
INSERT INTO b2 VALUES('xyz', 4);
CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);
INSERT INTO b3 VALUES('abc', 'abc');
INSERT INTO b3 VALUES('aBC', 'aBC');
INSERT INTO b3 VALUES('Def', 'Def');
INSERT INTO b3 VALUES('dEF', 'dEF');
}

# EVIDENCE-OF: R-57754-57109 If the SELECT statement is an aggregate
# query with a GROUP BY clause, then each of the expressions specified
# as part of the GROUP BY clause is evaluated for each row of the
# dataset. Each row is then assigned to a "group" based on the results;
# rows for which the results of evaluating the GROUP BY expressions are
# the same are assigned to the same group.
These tests also show that the following is not untrue:

EVIDENCE-OF: R-25883-55063 The expressions in the GROUP BY clause do not have to be expressions that appear in the result.

do_select_tests e_select-4.9 {
  1  "SELECT group_concat(one), two FROM b1 GROUP BY two" {
    \#,\f 1 o \#,\# s \#,\# t/}
  2  "SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {
    1,2,3,4 10  5,6,7 18}
  3  "SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" {
    4 1,5  2,6  3,7}
  4  "SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" {
    4,3,5,7,6  1,2}
}

EVIDENCE-OF: R-14926-50129 For the purposes of grouping rows, NULL values are considered equal.

do_select_tests e_select-4.10 {
  1  "SELECT group_concat(y) FROM b2 GROUP BY x" {
    \#,\f 3/}
  2  "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END" {4 1}
}

EVIDENCE-OF: R-10470-30318 The usual rules for selecting a collation sequence with which to compare text values apply when evaluating expressions in a GROUP BY clause.

do_select_tests e_select-4.11 {
  1  "SELECT count(*) FROM b3 GROUP BY b" {1 1 1 1}
  2  "SELECT count(*) FROM b3 GROUP BY a" {2 2}
  3  "SELECT count(*) FROM b3 GROUP BY +b" {1 1 1 1}
  4  "SELECT count(*) FROM b3 GROUP BY +a" {2 2}
  5  "SELECT count(*) FROM b3 GROUP BY b||" {1 1 1 1}
  6  "SELECT count(*) FROM b3 GROUP BY a||" {1 1 1 1}
}

EVIDENCE-OF: R-63573-50730 The expressions in a GROUP BY clause may not be aggregate expressions.

foreach {tn select} {
  12.1  "SELECT * FROM b3 GROUP BY count(*)"
  12.2  "SELECT max(a) FROM b3 GROUP BY max(b)"
12.3 "SELECT group_concat(a) FROM b3 GROUP BY a, max(b)"
} {
    set res {1 {aggregate functions are not allowed in the GROUP BY clause}}
    do_catchsql_test e_select-4.$tn $select $res
}

# EVIDENCE-OF: R-31537-00101 If a HAVING clause is specified, it is
# evaluated once for each group of rows as a boolean expression. If the
# result of evaluating the HAVING clause is false, the group is
# discarded.
#
# This requirement is tested by all e_select-4.13.* tests.
#
# EVIDENCE-OF: R-04132-09474 If the HAVING clause is an aggregate
# expression, it is evaluated across all rows in the group.
#
# Tested by e_select-4.13.1.*
#
# EVIDENCE-OF: R-28262-47447 If a HAVING clause is a non-aggregate
# expression, it is evaluated with respect to an arbitrarily selected
# row from the group.
#
# Tested by e_select-4.13.2.*
#
# Tests in this block also show that this is not untrue:
#
# EVIDENCE-OF: R-55403-13450 The HAVING expression may refer to values,
# even aggregate functions, that are not in the result.
#
do_execsql_test e_select-4.13.0 {
    CREATE TABLE c1(up, down);
    INSERT INTO c1 VALUES('x', 1);
    INSERT INTO c1 VALUES('x', 2);
    INSERT INTO c1 VALUES('x', 4);
    INSERT INTO c1 VALUES('x', 8);
    INSERT INTO c1 VALUES('y', 16);
    INSERT INTO c1 VALUES('y', 32);

    CREATE TABLE c2(i, j);
    INSERT INTO c2 VALUES(1, 0);
    INSERT INTO c2 VALUES(2, 1);
    INSERT INTO c2 VALUES(3, 3);
    INSERT INTO c2 VALUES(4, 6);
    INSERT INTO c2 VALUES(5, 10);
    INSERT INTO c2 VALUES(6, 15);
    INSERT INTO c2 VALUES(7, 21);
    INSERT INTO c2 VALUES(8, 28);
    INSERT INTO c2 VALUES(9, 36);
CREATE TABLE c3(i PRIMARY KEY, k TEXT);
INSERT INTO c3 VALUES(1, 'hydrogen');
INSERT INTO c3 VALUES(2, 'helium');
INSERT INTO c3 VALUES(3, 'lithium');
INSERT INTO c3 VALUES(4, 'beryllium');
INSERT INTO c3 VALUES(5, 'boron');
INSERT INTO c3 VALUES(94, 'plutonium');
}
}

do_select_tests e_select-4.13 {
1.1 "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" {x}
1.2 "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" {y}
1.3 "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" {x}
1.4 "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" {x4}
2.1 "SELECT up FROM c1 GROUP BY up HAVING down>10" {y}
2.2 "SELECT up FROM c1 GROUP BY up HAVING up='y'"  {y}
2.3 "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6" {9 36}
}

# EVIDENCE-OF: R-23927-54081 Each expression in the result-set is then
# evaluated once for each group of rows.
#
# EVIDENCE-OF: R-53735-47017 If the expression is an aggregate
# expression, it is evaluated across all rows in the group.
#
do_select_tests e_select-4.15 {
1  "SELECT sum(down) FROM c1 GROUP BY up" {15 48}
2  "SELECT sum(j), max(j) FROM c2 GROUP BY (i%3)"   {54 36 27 21 39 28}
3  "SELECT sum(j), max(j) FROM c2 GROUP BY (j%2)"   {80 36 40 21}
4  "SELECT i+sum(j), max(j)+1 FROM c2 GROUP BY (j%2)" {81 37 41 22}
5  "SELECT count(*), round(avg(i),2) FROM c1, c2 ON (i=down) GROUP BY j%2"
    {3 4.33 1 2.0}
}

# EVIDENCE-OF: R-62913-19830 Otherwise, it is evaluated against a single
# arbitrarily chosen row from within the group.
#
# EVIDENCE-OF: R-53924-08809 If there is more than one non-aggregate
# expression in the result-set, then all such expressions are evaluated
# for the same row.
#
do_select_tests e_select-4.15 {
1  "SELECT i, j FROM c2 GROUP BY i%2"             {8 28   9 36}
2  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j<30" {8 28}
3  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
4 "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
5 "SELECT count(*), i, k FROM c2 NATURAL JOIN c3 GROUP BY substr(k, 1, 1)"
   {2 5 boron   2 2 helium   1 3 lithium}
}

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows
# contributes a single row to the set of result rows.
#
# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
# with a GROUP BY clause is the same as the number of groups of rows
# produced by applying the GROUP BY and HAVING clauses to the filtered
# input dataset.
#
do_select_tests e_select.4.16 -count {
1 "SELECT i, j FROM c2 GROUP BY i%2"          2
2 "SELECT i, j FROM c2 GROUP BY i"            9
3 "SELECT i, j FROM c2 GROUP BY i HAVING i<5" 4
}

# The following tests attempt to verify statements made regarding the ALL
# and DISTINCT keywords.
#
drop_all_tables
do_execsql_test e_select-5.1.0 {
   CREATE TABLE h1(a, b);
   INSERT INTO h1 VALUES(1, 'one');
   INSERT INTO h1 VALUES(1, 'I');
   INSERT INTO h1 VALUES(1, 'i');
   INSERT INTO h1 VALUES(4, 'four');
   INSERT INTO h1 VALUES(4, 'IV');
   INSERT INTO h1 VALUES(4, 'iv');
   CREATE TABLE h2(x COLLATE nocase);
   INSERT INTO h2 VALUES('One');
   INSERT INTO h2 VALUES('Two');
   INSERT INTO h2 VALUES('Three');
   INSERT INTO h2 VALUES('Four');
   INSERT INTO h2 VALUES('one');
   INSERT INTO h2 VALUES('two');
   INSERT INTO h2 VALUES('three');
   INSERT INTO h2 VALUES('four');
   CREATE TABLE h3(c, d);
   INSERT INTO h3 VALUES(1, NULL);
   INSERT INTO h3 VALUES(2, NULL);
   INSERT INTO h3 VALUES(3, NULL);
INSERT INTO h3 VALUES(4, '2');
INSERT INTO h3 VALUES(5, NULL);
INSERT INTO h3 VALUES(6, '2,3');
INSERT INTO h3 VALUES(7, NULL);
INSERT INTO h3 VALUES(8, '2,4');
INSERT INTO h3 VALUES(9, '3');
} { }

# EVIDENCE-OF: R-60770-10612 One of the ALL or DISTINCT keywords may
# follow the SELECT keyword in a simple SELECT statement.
#
do_select_tests e_select-5.1 {
  1 "SELECT ALL a FROM h1" {1 1 1 4 4 4}
  2 "SELECT DISTINCT a FROM h1" {1 4}
} 

# EVIDENCE-OF: R-08861-34280 If the simple SELECT is a SELECT ALL, then
# the entire set of result rows are returned by the SELECT.
#
# EVIDENCE-OF: R-47911-02086 If neither ALL or DISTINCT are present,
# then the behavior is as if ALL were specified.
#
# EVIDENCE-OF: R-14442-41305 If the simple SELECT is a SELECT DISTINCT,
# then duplicate rows are removed from the set of result rows before it
# is returned.
#
# The three testable statements above are tested by e_select-5.2.*,
# 5.3.* and 5.4.* respectively.
#
do_select_tests e_select-5 {
  3.1 "SELECT ALL x FROM h2" {One Two Three Four one two three four}
  3.2 "SELECT ALL x FROM h1, h2 ON (x=b)" {One one Four four}

  3.1 "SELECT x FROM h2" {One Two Three Four one two three four}
  3.2 "SELECT x FROM h1, h2 ON (x=b)" {One one Four four}

  4.1 "SELECT DISTINCT x FROM h2" {One Two Three Four}
  4.2 "SELECT DISTINCT x FROM h1, h2 ON (x=b)" {One Four}
} 

# EVIDENCE-OF: R-02054-15343 For the purposes of detecting duplicate
# rows, two NULL values are considered to be equal.
#
do_select_tests e_select-5.5 {
  1 "SELECT DISTINCT d FROM h3" {{} 2 2,3 2,4 3}
} 

# EVIDENCE-OF: R-58359-52112 The normal rules for selecting a collation
# sequence to compare text values with apply.
#
do_select_tests e_select-5.6 {
1  "SELECT DISTINCT b FROM h1"                  {one I i four IV iv}
2  "SELECT DISTINCT b COLLATE nocase FROM h1"   {one I four IV}
3  "SELECT DISTINCT x FROM h2"                  {One Two Three Four}
4  "SELECT DISTINCT x COLLATE binary FROM h2"   {
   One Two Three Four one two three four
}
}
#
#
The following tests - e_select-7.* - test that statements made to do
# with compound SELECT statements are correct.
#
# EVIDENCE-OF: R-39368-64333 In a compound SELECT, all the constituent
# SELECTs must return the same number of result columns.
#
# All the other tests in this section use compound SELECTs created
# using component SELECTs that do return the same number of columns.
# So the tests here just show that it is an error to attempt otherwise.
#
drop_all_tables
do_execsql_test e_select-7.1.0 {
CREATE TABLE j1(a, b, c);
CREATE TABLE j2(e, f);
CREATE TABLE j3(g);
}
}
do_select_tests e_select-7.1 -error {
SELECTs to the left and right of %s do not have the same number of result columns
}
{
1  "SELECT a, b FROM j1  UNION ALL SELECT g FROM j3"    {{UNION ALL}}
2  "SELECT * FROM j1  UNION ALL SELECT * FROM j3"    {{UNION ALL}}
3  "SELECT a, b FROM j1  UNION ALL SELECT g FROM j3"    {{UNION ALL}}
4  "SELECT a, b FROM j1  UNION ALL SELECT * FROM j3,j2" {{UNION ALL}}
5  "SELECT * FROM j3,j2 UNION ALL SELECT a, b FROM j1" {{UNION ALL}}
6  "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
7  "SELECT * FROM j1  INTERSECT SELECT * FROM j3"    {INTERSECT}
8  "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
9  "SELECT a, b FROM j1  INTERSECT SELECT * FROM j3,j2" {INTERSECT}
10 "SELECT * FROM j3,j2 INTERSECT SELECT a, b FROM j1" {INTERSECT}
11 "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
12 "SELECT * FROM j1  INTERSECT SELECT * FROM j3"    {INTERSECT}
13 "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
14 "SELECT a, b FROM j1  INTERSECT SELECT * FROM j3,j2" {INTERSECT}

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"SELECT * FROM j3,j2 INTERSECT SELECT a, b FROM j1" [INTERSECT]

"SELECT a, b FROM j1 EXCEPT SELECT g FROM j3" [EXCEPT]

"SELECT * FROM j1 EXCEPT SELECT * FROM j3" [EXCEPT]

"SELECT a, b FROM j1 EXCEPT SELECT g FROM j3" [EXCEPT]

"SELECT * FROM j3,j2 EXCEPT SELECT a, b FROM j1" [EXCEPT]

# EVIDENCE-OF: R-01450-11152 As the components of a compound SELECT must
# be simple SELECT statements, they may not contain ORDER BY or LIMIT
# clauses.
#
foreach {tn select op1 op2} {

1 "SELECT * FROM j1 ORDER BY a UNION ALL SELECT * FROM j2,j3"
    ORDER BY } [UNION ALL]

2 "SELECT count(*) FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2"
    ORDER BY } [UNION ALL]

3 '"SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *,* FROM j2"
    ORDER BY } [UNION ALL]

4 "SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j2,j3"
    LIMIT } [UNION ALL]

5 "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION ALL SELECT * FROM j2,j3"
    LIMIT } [UNION ALL]

6 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION ALL SELECT g FROM j2,j3"
    LIMIT } [UNION ALL]

7 "SELECT * FROM j1 ORDER BY a UNION SELECT * FROM j2,j3"
    ORDER BY } [UNION]

8 "SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"
    ORDER BY } [UNION]

9 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *,* FROM j2"
    ORDER BY } [UNION]

10 "SELECT * FROM j1 LIMIT 10 UNION SELECT * FROM j2,j3"
    LIMIT } [UNION]

11 "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"
    LIMIT } [UNION]

12 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"
    LIMIT } [UNION]

13 "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"
    ORDER BY } [EXCEPT]

14 "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"
    ORDER BY } [EXCEPT]

15 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *,* FROM j2"
    ORDER BY } [EXCEPT]

16 "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"
    LIMIT } [EXCEPT]
"SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"
LIMIT {EXCEPT}
"SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"
LIMIT {EXCEPT}
"SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
{ORDER BY} {INTERSECT}
"SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
{ORDER BY} {INTERSECT}
"SELECT count(*), * FROM j1 ORDER BY 1,2,3 INTERSECT SELECT *,* FROM j2"
{ORDER BY} {INTERSECT}
"SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3"
LIMIT {INTERSECT}
"SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3"
LIMIT {INTERSECT}
"SELECT a FROM j1 LIMIT (SELECT 10) INTERSECT SELECT g FROM j2,j3"
LIMIT {INTERSECT}
set err "$op1 clause should come after $op2 not before"
do_catchsql_test e_select-7.2.$tn $select [list 1 $err]

# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach {tn select} {
  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
  "SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"
  "SELECT count(*), * FROM j1 UNION ALL SELECT *,* FROM j2 ORDER BY 1,2,3"
  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"
  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  "SELECT a FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"
  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"
  "SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"
  "SELECT count(*), * FROM j1 UNION SELECT *,* FROM j2 ORDER BY 1,2,3"
  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"
  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  "SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"
  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"
  "SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"
  "SELECT count(*), * FROM j1 EXCEPT SELECT *,* FROM j2 ORDER BY 1,2,3"
  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"
  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  "SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"
"SELECT count(*) FROM j1 INTERSECT SELECT max(e) FROM j2 ORDER BY 1"
"SELECT count(*), * FROM j1 INTERSECT SELECT *,* FROM j2 ORDER BY 1,2,3"
"SELECT *,* FROM j2 ORDER BY 1"
"SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"
"SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
"SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"

```
{}{
do_test e_select-7.3.$tn { catch {execsql $select} msg } 0
}
```

# EVIDENCE-OF: R-08531-36543 A compound SELECT created using UNION ALL operator returns all the rows from the SELECT to the left of the UNION ALL operator, and all the rows from the SELECT to the right of it.

```
drop_all_tables
do_execsql_test e_select-7.4.0 {
CREATE TABLE q1(a TEXT, b INTEGER, c);
CREATE TABLE q2(d NUMBER, e BLOB);
CREATE TABLE q3(f REAL, g);

INSERT INTO q1 VALUES(16, -87.66, NULL);
INSERT INTO q1 VALUES('legible', 94, -42.47);
INSERT INTO q1 VALUES('beauty', 36, NULL);

INSERT INTO q2 VALUES('legible', 1);
INSERT INTO q2 VALUES('beauty', 2);
INSERT INTO q2 VALUES(-65.91, 4);
INSERT INTO q2 VALUES('emanating', -16.56);

INSERT INTO q3 VALUES('beauty', 2);
INSERT INTO q3 VALUES('beauty', 2);
}
```

```
do_select_tests e_select-7.4 {
1 {SELECT a FROM q1 UNION ALL SELECT d FROM q2}
   {16 legible beauty legible beauty -65.91 emanating}

2 {SELECT * FROM q1 WHERE a=16 UNION ALL SELECT 'x', * FROM q2 WHERE oid=1}
   {16 -87.66 {} x legible 1}

3 {SELECT count(*) FROM q1 UNION ALL SELECT min(e) FROM q2}
   {3 -16.56}

4 {SELECT * FROM q2 UNION ALL SELECT * FROM q3}
   {legible 1 beauty 2 -65.91 4 emanating -16.56 beauty 2 beauty 2}
}
```

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as UNION ALL, except that duplicate rows are removed from the final result set.
do_select_tests e_select-7.5 {
  1 {SELECT a FROM q1 UNION SELECT d FROM q2} {-65.91 16 beauty emanating legible}
    16 -87.66 {} x legible 1
  2 {SELECT * FROM q1 WHERE a=16 UNION SELECT 'x', * FROM q2 WHERE oid=1}
    16 -87.66 {} x legible 1
  3 {SELECT count(*) FROM q1 UNION SELECT min(e) FROM q2}
    {-16.56 3}
  4 {SELECT * FROM q2 UNION SELECT * FROM q3}
    {-65.91 4 beauty 2 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the intersection of the results of the left and right SELECTs.

# do_select_tests e_select-7.6 {
  1 {SELECT a FROM q1 INTERSECT SELECT d FROM q2} {beauty legible}
  2 {SELECT * FROM q2 INTERSECT SELECT * FROM q3} {beauty 2}
}

# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of rows returned by the left SELECT that are not also returned by the right-hand SELECT.

# do_select_tests e_select-7.7 {
  1 {SELECT a FROM q1 EXCEPT SELECT d FROM q2} {16}
    16 -65.91 4 emanating -16.56 legible 1
  2 {SELECT * FROM q2 EXCEPT SELECT * FROM q3}
    {-65.91 4 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-40729-56447 Duplicate rows are removed from the results of INTERSECT and EXCEPT operators before the result set is returned.

# do_select_tests e_select-7.8 {
  0 {SELECT * FROM q3} {beauty 2 beauty 2}
    16
  1 {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
  2 {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1} {beauty 2}
}

# EVIDENCE-OF: R-46765-43362 For the purposes of determining duplicate rows for the results of compound SELECT operators, NULL values are considered equal to other NULL values and distinct from all non-NULL values.
#

db nullvalue null
do_select_tests e_select-7.9 {
    1 {SELECT NULL UNION ALL SELECT NULL} {null null}
    2 {SELECT NULL UNION SELECT NULL} {null}
    3 {SELECT NULL INTERSECT SELECT NULL} {null}
    4 {SELECT NULL EXCEPT SELECT NULL} {}
    5 {SELECT NULL UNION ALL SELECT 'ab'} {null ab}
    6 {SELECT NULL UNION SELECT 'ab'} {null ab}
    7 {SELECT NULL INTERSECT SELECT 'ab'} {}
    8 {SELECT NULL EXCEPT SELECT 'ab'} {null}
    9 {SELECT NULL UNION ALL SELECT 0} {null 0}
    10 {SELECT NULL UNION SELECT 0} {null 0}
    11 {SELECT NULL INTERSECT SELECT 0} {}
    12 {SELECT NULL EXCEPT SELECT 0} {null}
    13 {SELECT c FROM q1 UNION ALL SELECT g FROM q3} {null -42.47 null 2 2}
    14 {SELECT c FROM q1 UNION SELECT g FROM q3} {null -42.47 2}
    15 {SELECT c FROM q1 INTERSECT SELECT g FROM q3} {}
    16 {SELECT c FROM q1 EXCEPT SELECT g FROM q3} {null -42.47}
}
db nullvalue {}

# EVIDENCE-OF: R-51232-50224 The collation sequence used to compare two
# text values is determined as if the columns of the left and right-hand
# SELECT statements were the left and right-hand operands of the equals
# (=) operator, except that greater precedence is not assigned to a
# collation sequence specified with the postfix COLLATE operator.
#
drop_all_tables
do_execsql_test e_select-7.10.0 {
CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
INSERT INTO y1 VALUES('Abc', 'abc', 'aBC');
} {}
do_select_tests e_select-7.10 {
    1 {SELECT 'abc' UNION SELECT 'ABC'} {ABC abc}
    2 {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC'} {ABC}
    3 {SELECT 'abc' UNION SELECT 'ABC' COLLATE nocase} {ABC}
    4 {SELECT 'abc' COLLATE binary UNION SELECT 'ABC' COLLATE nocase} {ABC abc}
    5 {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' COLLATE binary} {ABC}
    6 {SELECT a FROM y1 UNION SELECT b FROM y1} {abc}
    7 {SELECT b FROM y1 UNION SELECT a FROM y1} {Abc abc}
    8 {SELECT a FROM y1 UNION SELECT c FROM y1} {aBC}
    9 {SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1} {aBC}
drop_all_tables
do_execsql_test e_select-7.10.0 {
CREATE TABLE w1(a TEXT, b NUMBER);
CREATE TABLE w2(a, b TEXT);

INSERT INTO w1 VALUES('1', 4.1);
INSERT INTO w2 VALUES(1, 4.1);
}

do_select_tests e_select-7.11 {
1  { SELECT a FROM w1 UNION SELECT a FROM w2 } {1 1}
2  { SELECT a FROM w2 UNION SELECT a FROM w1 } {1 1}
3  { SELECT b FROM w1 UNION SELECT b FROM w2 } {4.1 4.1}
4  { SELECT b FROM w2 UNION SELECT b FROM w1 } {4.1 4.1}

5  { SELECT a FROM w1 INTERSECT SELECT a FROM w2 } {}
6  { SELECT a FROM w2 INTERSECT SELECT a FROM w1 } {}
7  { SELECT b FROM w1 INTERSECT SELECT b FROM w2 } {}
8  { SELECT b FROM w2 INTERSECT SELECT b FROM w1 } {}

9  { SELECT a FROM w1 EXCEPT SELECT a FROM w2 } {1}
10 { SELECT a FROM w2 EXCEPT SELECT a FROM w1 } {1}
11 { SELECT b FROM w1 EXCEPT SELECT b FROM w2 } {4.1}
12 { SELECT b FROM w2 EXCEPT SELECT b FROM w1 } {4.1}
}

# EVIDENCE-OF: R-32562-20566 When three or more simple SELECTs are
# connected into a compound SELECT, they group from left to right. In
# other words, if "A", "B" and "C" are all simple SELECT statements, (A
# op B op C) is processed as ((A op B) op C).
#
# e_select-7.12.1: Precedence of UNION vs. INTERSECT
# e_select-7.12.2: Precedence of UNION vs. UNION ALL
# e_select-7.12.3: Precedence of UNION vs. EXCEPT
# e_select-7.12.4: Precedence of INTERSECT vs. UNION ALL
# e_select-7.12.5: Precedence of INTERSECT vs. EXCEPT
# e_select-7.12.6: Precedence of UNION ALL vs. EXCEPT
# e_select-7.12.7: Check that "a EXCEPT b EXCEPT c" is processed as
# "(a EXCEPT b) EXCEPT c".
#
# The INTERSECT and EXCEPT operations are mutually commutative. So
# the e_select-7.12.5 test cases do not prove very much.
drop_all_tables
do_execsql_test e_select-7.12.0 {
    CREATE TABLE t1(x);
    INSERT INTO t1 VALUES(1);
    INSERT INTO t1 VALUES(2);
    INSERT INTO t1 VALUES(3);
}

foreach {tn select res} {
    1a "(1,2) INTERSECT (1) UNION (3)" [1 3]
    1b "(3) UNION (1,2) INTERSECT (1)" [1]

    2a "(1,2) UNION (3) UNION ALL (1)" [1 2 3 1]
    2b "(1) UNION ALL (3) UNION (1,2)" [1 2 3]

    3a "(1,2) UNION (3) EXCEPT (1)" [2 3]
    3b "(1,2) EXCEPT (3) UNION (1)" [1 2]

    4a "(1,2) INTERSECT (1) UNION ALL (3)" [1 3]
    4b "(3) UNION (1,2) INTERSECT (1)" [1]

    5a "(1,2) INTERSECT (2) EXCEPT (2)" {}
    5b "(2,3) EXCEPT (2) INTERSECT (2)" {}

    6a "(2) UNION ALL (2) EXCEPT (2)" {}
    6b "(2) EXCEPT (2) UNION ALL (2)" [2]

    7 "(2,3) EXCEPT (2) EXCEPT (3)" {}
} {
    set select [string map {{SELECT x FROM t1 WHERE x IN()} $select] do_execsql_test e_select-7.12.$tn $select [list {*} $res]
}

# ORDER BY clauses
#

drop_all_tables
do_execsql_test e_select-8.1.0 {
    CREATE TABLE d1(x, y, z);

    INSERT INTO d1 VALUES(1, 2, 3);
    INSERT INTO d1 VALUES(2, 5, -1);
    INSERT INTO d1 VALUES(1, 2, 8);
    INSERT INTO d1 VALUES(1, 2, 7);
    INSERT INTO d1 VALUES(2, 4, 93);
    INSERT INTO d1 VALUES(1, 2, -20);
INSERT INTO d1 VALUES(1, 4, 93);
INSERT INTO d1 VALUES(1, 5, -1);

CREATE TABLE d2(a, b);
INSERT INTO d2 VALUES('gently', 'failings');
INSERT INTO d2 VALUES('commercials', 'bathrobe');
INSERT INTO d2 VALUES('iterate', 'sexton');
INSERT INTO d2 VALUES('babied', 'charitableness');
INSERT INTO d2 VALUES('solemnness', 'annexed');
INSERT INTO d2 VALUES('rejoicing', 'liabilities');
INSERT INTO d2 VALUES('pragmatist', 'guarded');
INSERT INTO d2 VALUES('barked', 'interrupted');
INSERT INTO d2 VALUES('reemphasizes', 'reply');
INSERT INTO d2 VALUES('lad', 'relenting');
}

# EVIDENCE-OF: R-44988-41064 Rows are first sorted based on the results
# of evaluating the left-most expression in the ORDER BY list, then ties
# are broken by evaluating the second left-most expression and so on.
#
# do_select_tests e_select-8.1 {
1  "SELECT * FROM d1 ORDER BY x, y, z" {
1 2 -20 1 2 3 1 2 7 1 2 8
1 4 93 1 5 -1 2 4 93 2 5 -1
}
}

# EVIDENCE-OF: R-06617-54588 Each ORDER BY expression may be optionally
# followed by one of the keywords ASC (smaller values are returned
# first) or DESC (larger values are returned first).
#
# Test cases e_select-8.2.* test the above.
#
# EVIDENCE-OF: R-18705-33393 If neither ASC or DESC are specified, rows
# are sorted in ascending (smaller values first) order by default.
#
# Test cases e_select-8.3.* test the above. All 8.3 test cases are
# copies of 8.2 test cases with the explicit "ASC" removed.
#
# do_select_tests e_select-8 {
2.1  "SELECT * FROM d1 ORDER BY x ASC, y ASC, z ASC" {
12 -20 1 2 3 1 2 7 1 2 8
1 4 93 1 5 -1 2 4 93 2 5 -1
}
2.2  "SELECT * FROM d1 ORDER BY x DESC, y DESC, z DESC" {
2 5 -1 2 4 93 1 5 -1 1 4 93
1 2 8 1 2 7 1 2 3 1 2 -20
}
2.3 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z DESC" {
   2 4 93   2 5 -1   1 2 8   1 2 7
   1 2 3   1 2 -20   1 4 93   1 5 -1
}
2.4 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z ASC" {
   2 4 93   2 5 -1   1 2 -20   1 2 3
   1 2 7   1 2 8   1 4 93   1 5 -1
}

3.1 "SELECT * FROM d1 ORDER BY x, y, z" {
   1 2 -20   1 2 3   1 2 7   1 2 8
   1 4 93   1 5 -1   2 4 93   2 5 -1
}
3.3 "SELECT * FROM d1 ORDER BY x DESC, y, z DESC" {
   2 4 93   2 5 -1   1 2 8   1 2 7
   1 2 3   1 2 -20   1 4 93   1 5 -1
}
3.4 "SELECT * FROM d1 ORDER BY x DESC, y, z" {
   2 4 93   2 5 -1   1 2 -20   1 2 3
   1 2 7   1 2 8   1 4 93   1 5 -1
}

# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant integer K
# then the expression is considered an alias for the K-th column of the result set (columns are numbered from left to right starting with 1).
#
# do_select_tests e_select-8.4 {
1  "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
   1 2 -20   1 2 3   1 2 7   1 2 8
   1 4 93   1 5 -1   2 4 93   2 5 -1
}
2  "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {
   2 5 -1   2 4 93   1 4 93
   1 2 8   1 2 7   1 2 3   1 2 -20
}
3  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 DESC" {
   2 4 93   2 5 -1   1 2 8   1 2 7
   1 2 3   1 2 -20   1 4 93   1 5 -1
}
4  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 ASC" {
   2 4 93   2 5 -1   1 2 -20   1 2 3
   1 2 7   1 2 8   1 4 93   1 5 -1
}
5  "SELECT * FROM d1 ORDER BY 1, 2, 3" {
   1 2 -20   1 2 3   1 2 7   1 2 8
   1 4 93   1 5 -1   2 4 93   2 5 -1
}
"SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
  2 4 93  2 5 -1  1 2 8  1 2 7  
  1 2 3  1 2 -20  1 4 93  1 5 -1  
}
"SELECT * FROM d1 ORDER BY 1 DESC, 2, 3" {
  2 4 93  2 5 -1  1 2 -20  1 2 3  
  1 2 8  1 4 93  1 5 -1  
}
"SELECT z, x FROM d1 ORDER BY 2" {
  /# 1 # 1 # 1 # 1    
  # 1 # 1 # 2 # 2/  
}
"SELECT z AS x, x AS z FROM d1 ORDER BY z" {
  /# 1 # 1 # 1 # 1 # 1 # 2 # 2/  
}
"SELECT z AS x, x AS z FROM d1 ORDER BY x" {
  /-20 1 -1 # -1 # 3 1    
  7 1  8 1  93 #  93 #/  
}
"SELECT z+1 AS abc FROM d1 ORDER BY abc" {
  -19 0 0 4 8 9 94 94  
}
"SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
  94 94 9 8 4 0 0 -19  
}
"SELECT z AS x, x AS z FROM d1 ORDER BY z" {
  /# 1 # 1 # 1 # 1 # 1 # 2 # 2/  
}
"SELECT z AS x, x AS z FROM d1 ORDER BY x" {
  /-20 1 -1 # -1 # 3 1 7 1  8 1  93 #  93 #/  
}
"SELECT * FROM d1 ORDER BY x+y+z" {
  1 2 -20  1 5 -1  1 2 3  2 5 -1  
}

# EVIDENCE-OF: R-63286-51977 If the ORDER BY expression is an identifier that corresponds to the alias of one of the output columns, then the expression is considered an alias for that column.

# do_select_tests e_select-8.5 {
  1  "SELECT z+1 AS abc FROM d1 ORDER BY abc" {
      -19 0 0 4 8 9 94 94  
  }  
  2  "SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
      94 94 9 8 4 0 0 -19  
  }  
  3  "SELECT z AS x, x AS z FROM d1 ORDER BY z" {
      /# 1 # 1 # 1 # 1 # 1 # 2 # 2/  
  }  
  4  "SELECT z AS x, x AS z FROM d1 ORDER BY x" {
      /-20 1 -1 # -1 # 3 1 7 1  8 1  93 #  93 #/  
  }  

# EVIDENCE-OF: R-65068-27207 Otherwise, if the ORDER BY expression is any other expression, it is evaluated and the returned value used to order the output rows.

# do_select_tests e_select-8.6 {
  1  "SELECT * FROM d1 ORDER BY x+y+z" {
      1 2 -20  1 5 -1  1 2 3  2 5 -1  
  }  

# EVIDENCE-OF: R-03421-57988 If the SELECT statement is a simple SELECT, then an ORDER BY may contain any arbitrary expressions.
1 2 7 1 2 8 1 4 93 2 4 93
}
2  "SELECT * FROM d1 ORDER BY x*z" {  
   1 2 -20 2 5 -1 1 5 -1 1 2 3  
   1 2 7 1 2 8 1 4 93 2 4 93  
}
3  "SELECT * FROM d1 ORDER BY y*z" {  
   1 2 -20 2 5 -1 1 5 -1 1 2 3  
   1 2 7 1 2 8 2 4 93 1 4 93  
}

# EVIDENCE-OF: R-28853-08147 However, if the SELECT is a compound  
# SELECT, then ORDER BY expressions that are not aliases to output  
# columns must be exactly the same as an expression used as an output  
# column.
#

do_select_tests e_select-8.7.1 -error {  
   %s ORDER BY term does not match any column in the result set  
} {  
   1  "SELECT x FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z"  1st  
   2  "SELECT x,z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" 2nd  
}

do_select_tests e_select-8.7.2 {  
   1  "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" {  
      -20 -2 -1 3 7 8 93 186 babied barked commercials gently  
         iterate lad pragmatist reemphasizes rejoicing solemnness  
   }  
   2  "SELECT x, x/z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" {  
      1 -1 1 0 1 0 1 0 1 0 1 0 2 -2 2 0  
         babied charitableness barked interrupted commercials bathrobe gently  
            failings iterate sexton lad relenting pragmatist guarded reemphasizes reply  
               rejoicing liabilities solemnness annexed  
   }  
}

do_execsql_test e_select-8.8.0 {  
CREATE TABLE d3(a);  
INSERT INTO d3 VALUES('text');  
INSERT INTO d3 VALUES(14.1);  
INSERT INTO d3 VALUES(13);  
INSERT INTO d3 VALUES(X'78787878');  
INSERT INTO d3 VALUES(15);  
INSERT INTO d3 VALUES(12.9);  
INSERT INTO d3 VALUES(null);  

CREATE TABLE d4(x COLLATE nocase):


INSERT INTO d4 VALUES('abc');
INSERT INTO d4 VALUES('ghi');
INSERT INTO d4 VALUES('DEF');
INSERT INTO d4 VALUES('JKL');
}

# EVIDENCE-OF: R-10883-17697 For the purposes of sorting rows, values
# are compared in the same way as for comparison expressions.
#
# The following tests verify that values of different types are sorted
# correctly, and that mixed real and integer values are compared properly.
#
do_execsql_test e_select-8.8.1 {
SELECT a FROM d3 ORDER BY a
} {}

do_execsql_test e_select-8.8.2 {
SELECT a FROM d3 ORDER BY a DESC
} {xxxx text 15 14.1 13 12.9 {}}

# EVIDENCE-OF: R-64199-22471 If the ORDER BY expression is assigned a
# collation sequence using the postfix COLLATE operator, then the
# specified collation sequence is used.
#
do_execsql_test e_select-8.9.1 {
SELECT x FROM d4 ORDER BY 1 COLLATE binary
} {DEF JKL abc ghi}
do_execsql_test e_select-8.9.2 {
SELECT x COLLATE binary FROM d4 ORDER BY 1 COLLATE nocase
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-09398-26102 Otherwise, if the ORDER BY expression is
# an alias to an expression that has been assigned a collation sequence
# using the postfix COLLATE operator, then the collation sequence
# assigned to the aliased expression is used.
#
# In the test 8.10.2, the only result-column expression has no alias. So the
# ORDER BY expression is not a reference to it and therefore does not inherit
# the collation sequence. In test 8.10.3, "x" is the alias (as well as the
# column name), so the ORDER BY expression is interpreted as an alias and the
# collation sequence attached to the result column is used for sorting.
#
do_execsql_test e_select-8.10.1 {
SELECT x COLLATE binary FROM d4 ORDER BY 1
} {DEF JKL abc ghi}
do_execsql_test e_select-8.10.2 {
SELECT x COLLATE binary FROM d4 ORDER BY x
} {abc DEF ghi JKL}
do_execsql_test e_select-8.10.3 {
    SELECT x COLLATE binary AS x FROM d4 ORDER BY x
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-27301-09658 Otherwise, if the ORDER BY expression is a
# column or an alias of an expression that is a column, then the default
# collation sequence for the column is used.
#
    do_execsql_test e_select-8.11.1 {
        SELECT x AS y FROM d4 ORDER BY y
    } {abc DEF ghi JKL}
do_execsql_test e_select-8.11.2 {
    SELECT x||'' FROM d4 ORDER BY x
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-49925-55905 Otherwise, the BINARY collation sequence is
# used.
#
    do_execsql_test e_select-8.12.1 {
        SELECT x FROM d4 ORDER BY x||''
    } {DEF JKL abc ghi}

# EVIDENCE-OF: R-44130-32593 If an ORDER BY expression is not an integer
# alias, then SQLite searches the left-most SELECT in the compound for a
# result column that matches either the second or third rules above. If
# a match is found, the search stops and the expression is handled as an
# alias for the result column that it has been matched against.
# Otherwise, the next SELECT to the right is tried, and so on.
#
    do_execsql_test e_select-8.13.0 {
        CREATE TABLE d5(a, b);
        CREATE TABLE d6(c, d);
        CREATE TABLE d7(e, f);

        INSERT INTO d5 VALUES(1, 'f');
        INSERT INTO d6 VALUES(2, 'e');
        INSERT INTO d7 VALUES(3, 'd');
        INSERT INTO d5 VALUES(4, 'c');
        INSERT INTO d6 VALUES(5, 'b');
        INSERT INTO d7 VALUES(6, 'a');

        CREATE TABLE d8(x COLLATE nocase);
        CREATE TABLE d9(y COLLATE nocase):

        INSERT INTO d8 VALUES('a');
        INSERT INTO d9 VALUES('B');
        INSERT INTO d8 VALUES('c');
        INSERT INTO d9 VALUES('D');
do_select_tests e_select-8.13 {
1  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
    ORDER BY a
    } {1 2 3 4 5 6}
2  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
    ORDER BY c
    } {1 2 3 4 5 6}
3  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
    ORDER BY e
    } {1 2 3 4 5 6}
4  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
    ORDER BY 1
    } {1 2 3 4 5 6}
5  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY b
    } {f 1  c 4  4 c  1 f}
6  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 2
    } {f 1  c 4  4 c  1 f}

7  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY a
    } {1 f  4 c  4 c  1 f}
8  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 1
    } {1 f  4 c  4 c  1 f}
9  { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1
    } {f 2  c 5  4 c  1 f}
10 { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 2
    } {f 2  c 5  4 c  1 f}

11 { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1
    } {2 f  5 c  5 c  2 f}
12 { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 1
    } {2 f  5 c  5 c  2 f}
}

# EVIDENCE-OF: R-39265-04070 If no matching expression can be found in
# the result columns of any constituent SELECT, it is an error.
#
do_select_tests e_select-8.14 -error {
%\$ ORDER BY term does not match any column in the result set
} {
1  { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a+1
    } 1st
2  { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a, a+1
    } 2nd
3  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY 'hello'
    } 1st
4  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY blah
    } 1st
5  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY c,d,c+d
    } 3rd
6  { SELECT * FROM d5 EXCEPT SELECT * FROM d7 ORDER BY 1,2,b,a/b
    } 4th


# EVIDENCE-OF: R-03407-11483 Each term of the ORDER BY clause is processed separately and may be matched against result columns from different SELECT statements in the compound.

```
do_select_tests e_select-8.15 {
1 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d } {1 e 1 f 4 b 4 c}
2 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY c-1, b } {1 e 1 f 4 b 4 c}
3 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY 1, 2 } {1 e 1 f 4 b 4 c}
}
```

# Tests related to statements made about the LIMIT/OFFSET clause.

```
do_execsql_test e_select-9.0 {
CREATE TABLE f1(a, b);
INSERT INTO f1 VALUES(26, 'z');
INSERT INTO f1 VALUES(25, 'y');
INSERT INTO f1 VALUES(24, 'x');
INSERT INTO f1 VALUES(23, 'w');
INSERT INTO f1 VALUES(22, 'v');
INSERT INTO f1 VALUES(21, 'u');
INSERT INTO f1 VALUES(20, 't');
INSERT INTO f1 VALUES(19, 's');
INSERT INTO f1 VALUES(18, 'r');
INSERT INTO f1 VALUES(17, 'q');
INSERT INTO f1 VALUES(16, 'p');
INSERT INTO f1 VALUES(15, 'o');
INSERT INTO f1 VALUES(14, 'n');
INSERT INTO f1 VALUES(13, 'm');
INSERT INTO f1 VALUES(12, 'l');
INSERT INTO f1 VALUES(11, 'k');
INSERT INTO f1 VALUES(10, 'j');
INSERT INTO f1 VALUES(9, 'i');
INSERT INTO f1 VALUES(8, 'h');
INSERT INTO f1 VALUES(7, 'g');
INSERT INTO f1 VALUES(6, 'f');
INSERT INTO f1 VALUES(5, 'e');
INSERT INTO f1 VALUES(4, 'd');
INSERT INTO f1 VALUES(3, 'c');
INSERT INTO f1 VALUES(2, 'b');
INSERT INTO f1 VALUES(1, 'a');
}
```
Any scalar expression may be used in the LIMIT clause, so long as it evaluates to an integer or a value that can be losslessly converted to an integer.

```sql
do_select_tests e_select-9.1 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
  2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
  3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b = 'e') } {a b c d e}
  4  { SELECT b FROM f1 ORDER BY a LIMIT 5.0 } {a b c d e}
  5  { SELECT b FROM f1 ORDER BY a LIMIT '5' } {a b c d e}
}
```

If the expression evaluates to a NULL value or any other value that cannot be losslessly converted to an integer, an error is returned.

```sql
do_select_tests e_select-9.2 -error "datatype mismatch" {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 'hello' } {}
  2  { SELECT b FROM f1 ORDER BY a LIMIT NULL } {}
  3  { SELECT b FROM f1 ORDER BY a LIMIT X'ABCD' } {}
  4  { SELECT b FROM f1 ORDER BY a LIMIT 5.1 } {}
  5  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT group_concat(b) FROM f1) } {}
}
```

Otherwise, the SELECT returns the first N rows of its result set only, where N is the value that the LIMIT expression evaluates to.

```sql
do_select_tests e_select-9.5 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 0 } {}
  2  { SELECT b FROM f1 ORDER BY a DESC LIMIT 4 } {z y x w}
  3  { SELECT b FROM f1 ORDER BY a DESC LIMIT 8 } {z y x w v u t s}
}
```
4  { SELECT b FROM f1 ORDER BY a DESC LIMIT '12.0' } { z y x w v u t s r q p o }
}

# EVIDENCE-OF: R-54935-19057 Or, if the SELECT statement would return
# less than N rows without a LIMIT clause, then the entire result set is
# returned.
#
# do_select_tests e_select-9.6 {
1  { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } { v w x y z }
2  { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10 } { 2 4 5 5 5 5 }
}

# EVIDENCE-OF: R-24188-24349 The expression attached to the optional
# OFFSET clause that may follow a LIMIT clause must also evaluate to an
# integer, or a value that can be losslessly converted to an integer.
#
foreach {tn select} {
1  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
2  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
3  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET X'ABCD' }
4  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
5  { SELECT b FROM f1 ORDER BY a
      LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1)
    }
} {
    do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}
}

# EVIDENCE-OF: R-20467-43422 If an expression has an OFFSET clause, then
# the first M rows are omitted from the result set returned by the
# SELECT statement and the next N rows are returned, where M and N are
# the values that the OFFSET and LIMIT clauses evaluate to,
# respectively.
#
# do_select_tests e_select-9.8 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 5} { f g h i j k l m n o }
2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10} { k l m n o }
3  { SELECT b FROM f1 ORDER BY a
      LIMIT (SELECT a FROM f1 WHERE b='j'
      OFFSET (SELECT a FROM f1 WHERE b='b'))
    } { c d e f g h i j k l }
4  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } { d e f g h }
5  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } { a b c d e }
6  { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
7  { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } { p q r }
}
# EVIDENCE-OF: R-34648-44875 Or, if the SELECT would return less than
# M+N rows if it did not have a LIMIT clause, then the first M rows are
# skipped and the remaining rows (if any) are returned.
#
# do_select_tests e_select-9.9 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20} {u v w x y z}
2  { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4} {4 3 2 1}
}

# EVIDENCE-OF: R-23293-62447 If the OFFSET clause evaluates to a
# negative value, the results are the same as if it had evaluated to
# zero.
#
# do_select_tests e_select-9.10 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0 } {a b c d e}
}

# EVIDENCE-OF: R-19509-40356 Instead of a separate OFFSET clause, the
# LIMIT clause may specify two scalar expressions separated by a comma.
# # EVIDENCE-OF: R-33788-46243 In this case, the first expression is used
# as the OFFSET expression and the second as the LIMIT expression.
#
# do_select_tests e_select-9.11 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 5, 10 } {f g h i j k l m n o}
2  { SELECT b FROM f1 ORDER BY a LIMIT 10, 2+3 } {k l m n o}
3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b='b'), (SELECT a FROM f1 WHERE b='j') } {c d e f g h i j k l}
4  { SELECT b FROM f1 ORDER BY a LIMIT 3.0, '5' } {d e f g h}
5  { SELECT b FROM f1 ORDER BY a LIMIT 0, '5' } {a b c d e}
6  { SELECT b FROM f1 ORDER BY a LIMIT 10, 0 } {}
7  { SELECT b FROM f1 ORDER BY a LIMIT '1'|'5', 3 } {p q r}
8  { SELECT b FROM f1 ORDER BY a LIMIT 20, 10 } {u v w x y z}
9  { SELECT a FROM f1 ORDER BY a DESC LIMIT 18+4, 100 } {4 3 2 1}
10 { SELECT b FROM f1 ORDER BY a LIMIT -1, 5 } {a b c d e}
11 { SELECT b FROM f1 ORDER BY a LIMIT -500, 5 } {a b c d e}
12 { SELECT b FROM f1 ORDER BY a LIMIT 0, 5 } {a b c d e}
}

finish_test

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

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

'?If the transaction volume on the child is less than half of the parent”s minimum volume no hedge will occur.
'?If the transaction volume on the child is more than half the parent”s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent”s minimum volume.
'?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.
Please see example below:

Parent's Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction Volume Hedged
1   - 24990
2500 - 54995000
5500 - 64996000);

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
 lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it's ok with everyone's needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o'clock hour just let me know; I'll
be more than willing to stay.);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'loise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work
request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com,
scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html);

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedcke@enron.com', 'paul.simons@enron.com',
'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark);

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW:
Producers Newsletter 9-24-2001',
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001


-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

'I:
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com',
'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would
be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey')
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business
users?
-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy);

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

-----Original Message-----
From: Bert Meyers
Sent:Monday, October 8, 2001 4:31 PM
To:Shift.Dl-Portland
Subject:OCTOBER SCHEDULE

TEAM,
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

-----Original Message-----
From: Errol McLaughlin
Sent:Monday, September 24, 2001 6:31 PM
To: John Arnold, Bilal Bajwa, John Griffith
Subject:TRV Notification: (NG - PROPT P/L - 09/27/2001)

'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!;
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW ! You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "'chris.germany@enron.com'" <chris.germany@enron.com>
cc:
Subject: About St Pauls

Chris,

I like the looks of this place. What do you think about going here Christmas eve? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know. ii

- About St Pauls.url

');

As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');
Here is a goody for you:

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,','TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,','Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ;
30.000 / Enron LS HPL LSK IC 110.000 / HPL IFERC
');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.
Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points;

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhlhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

"Errol Mclaughlin <errol.mclaughlin@enron.com> on 09/07/2000 09:01:04 AM
To: "sherry@dawson@enron.com" <sherry.dawson@enron.com>, 'Urgent!!! --- New EAST books', 'This has to be done.
Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: i will try to line up a pig for you');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name:  Houston Cellular 8-11-01
Report Date:  12/13/01
Report ID:  594D37C9ED2111D5B452
Submitted On:  12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com, 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com""
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf'

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------
Nailia Dindarova  
25/06/2001 15:36  
To: Michael Brown/Enron@EUEnronXGate  
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT  
Subject: Documents for Mark Frevert (on EU developments and lessons from California)  

Michael,  

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.  

Nailia  

');  

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -  

Attached are our comments and suggested changes. Please call to review.  

On the time line for completion, we have four critical steps to complete:  
- Finalize market analysis to refine business case, specifically projected revenue stream  
- Complete counterparty surveying, including targeting 3 CPs for letters of intent  
- Review Enron asset base for potential reuse/licensing  
- Contract negotiations  

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.  

We will send our cut at the actual time line here shortly. Thanks,  

Peggy  

(See attached file: accenture-dealpoints v2.doc)
Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution's Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
We have received the executed EEI contract from this CP dated 12/12/2000.

Copies will be distributed to Legal and Credit.';

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michelearly@earthlink.net', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.

I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.'
San Antonio, Texas    May 2-4, 2001    Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.


I'll get it done today.

DG    3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT

cc:

Subject: Feedback for Audrey Cook
You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

);
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey);
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com.', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.
Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu,
gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

'));

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

'));

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', '.bonin@enron.com,
felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441
In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance

-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,
Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio
-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william(bradford@enron.com, debbie.brackett@enron.com, ', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, ',

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
INSERT INTO email([from],[to],subject,body) VALUES('dperlin@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:);

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending
To review this expense report, click on the following link for Concur Expense.
http://expensesxms.enron.com:

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.';

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com','RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM  
To: Storey, Geoff  
Subject:

CoralJeff Whitnah 713-767-5374  
RelaintSteve McGinn 713-207-4000)

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----

$$ Variance found in table tblLoads.

   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)  
TRANS_TYPE: FINAL  
LOAD_ID: PGE4  
MKT_TYPE: 2  
TRANS_DATE: 4/22/01  
SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall  
Solaris 8  
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.
*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg';
COMMIT;
}
} {}

###############################################################################
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
###############################################################################

do_test fts1c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts1c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts1c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
  }
} {}
do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
}
do_test fts1c-1.9 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample data set above, only one message, number 20, contains the words "gas" and "reminder" in both body and subject.
#

do_test fts1c-2.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts1c-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}

do_test fts1c-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts1c-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}

do_test fts1c-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only 3 of them are paired with "product". Make sure only those instances that match the phrase appear in the offsets(email) list.
#

do_test fts1c-3.1 {
execsql {

SELECT rowid, offsets(email) FROM email
  WHERE body MATCH 'child product' AND +rowid=32
}
}
}
}
}

do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE body MATCH "child product"
  }
}

# Snippet generator tests
#

do_test fts1c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
      WHERE email MATCH 'subject:gas reminder'
  }
}
}

...

do_test fts1c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
      WHERE email MATCH 'christmas candlelight'
  }
}
}

...

do_test fts1c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
      WHERE email MATCH 'deal sheet potential reuse'
  }
}

...

do_test fts1c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
      WHERE email MATCH 'deal sheet potential reuse'
  }
}

...

do_test fts1c-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
      WHERE email MATCH 'first things'
  }
}
do_test fts1c-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
}

do_test fts1c-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
  }
}

Erin:

Pursuant to your request, attached are the Schedule to...

Variances detected. Variances detected in Load schedule.

LOG MESSAGES:

PARSING ...

# Combinations of AND and OR operators:
#

do_test fts1c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
}

six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2...

do_test fts1c-5.2 {
  execsql {
    SELECT snippet(email) FROM email
  }
}
WHERE email MATCH 'enron OR com questar'

} } {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b> }

finish_test

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

# 2012 May 21
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
# NB: Portions of this file are extracted from open-source projects
# covered by permissive licenses. Use of this file for testing is clearly
# allowed. However, do not incorporate the text of this one file into
# end-products without checking the licenses on the open-source projects
# from which this code was extracted. This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#******************************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, tuuid_parent TEXT NOT NULL DEFAULT '', t_name TEXT NOT NULL, t_value TEXT NOT NULL DEFAULT '', b_blob BLOB, d_lastmodifiedate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP, i_tmp INTEGER NOT NULL DEFAULT 0);

CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')), d_date DATE NOT NULL, t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')), i_parent INTEGER, t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));

CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL, i_object_id INTEGER NOT NULL, t_object_table TEXT NOT NULL, t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')), t_sqlorder TEXT NOT NULL DEFAULT '');

CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL, t_message TEXT NOT NULL DEFAULT '', t_popup VARCHAR(1) DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));

CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_symbol TEXT NOT NULL DEFAULT '', t_country TEXT NOT NULL DEFAULT '', t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')), t_internet_code TEXT NOT NULL DEFAULT '', i_nbdecimal INT NOT NULL DEFAULT 2, rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source TEXT NOT NULL DEFAULT '');

CREATE TABLE unitvalue (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_unit_id INTEGER NOT NULL, d_date DATE NOT NULL, f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));

CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_bank_number TEXT NOT NULL DEFAULT '', t_icon TEXT NOT NULL DEFAULT '');

CREATE TABLE interest (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_account_id INTEGER NOT NULL, d_date DATE NOT NULL, f_rate FLOAT NOT NULL CHECK (f_rate>=0), t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));

CREATE TABLE operation (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, i_group_id INTEGER NOT NULL DEFAULT 0, i_number INTEGER DEFAULT 0 CHECK (i_number>=0), d_date DATE NOT NULL DEFAULT '0000-00-00', rd_account_id INTEGER NOT NULL, t_mode TEXT NOT NULL DEFAULT '', r_payee_id INTEGER NOT NULL DEFAULT 0, t_comment TEXT NOT NULL DEFAULT '', rc_unit_id INTEGER NOT NULL, t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')), i_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (i_bookmarked IN ('Y', 'N')), i_imported VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (i_imported IN ('Y', 'N', 'P', 'T')), t_template VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N')), t_import_id TEXT NOT NULL DEFAULT '', i_tmp INTEGER NOT NULL DEFAULT 0, r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);

CREATE TABLE operationbalance (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_account_id INTEGER NOT NULL, d_date DATE NOT NULL DEFAULT '0000-00-00', f_balance FLOAT NOT NULL DEFAULT 0);

CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')));

CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_address TEXT NOT NULL DEFAULT '');
CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_comment TEXT NOT NULL DEFAULT '',rd_operation_id INTEGER NOT NULL DEFAULT 0,f_value FLOAT NOT NULL DEFAULT 0.0,t_tmp INTEGER NOT NULL DEFAULT 0,r_refund_id INTEGER NOT NULL DEFAULT 0,t_formula TEXT NOT NULL DEFAULT '');
CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_description TEXT NOT NULL DEFAULT '',t_definition TEXT NOT NULL DEFAULT '',t_action_description TEXT NOT NULL DEFAULT '',t_action_definition TEXT NOT NULL DEFAULT '',t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),f_sortorder FLOAT);
CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id INTEGER NOT NULL DEFAULT 0,t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N')),f_budgeted FLOAT NOT NULL DEFAULT 0.0,f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0,i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12));
CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0,id_category INTEGER NOT NULL DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id INTEGER NOT NULL DEFAULT 0,t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')),t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN ('Y', 'N')),i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12),t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_month_condition IN ('Y', 'N')),i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-1,0,1)),f_quantity FLOAT NOT NULL DEFAULT 0.0,t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN ('Y', 'N')),rc_category_id_target INTEGER NOT NULL DEFAULT 0,t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')),t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('N', 'C', 'Y')));
CREATE TABLE recurrentoperation (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL DEFAULT 0,i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0),t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')),t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));
CREATE TABLE category(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_fullname TEXT,rd_category_id INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE account(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_number TEXT NOT NULL DEFAULT '',t_agency_number TEXT NOT NULL DEFAULT '',t_agency_address TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')),t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'D', 'A', 'T', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),rd_bank_id INTEGER NOT NULL DEFAULT 0);
CREATE TABLE node(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_fullname TEXT,t_icon TEXT DEFAULT '',f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')));
CREATE TABLE vm_category_display_tmp(
    id INT,
    t_name TEXT,
    t_fullname TEXT,
    rd_category_id INT,
    t_bookmarked TEXT,
    i_NBOPERATIONS,
    f_REALCURRENTAMOUNT
);  
CREATE TABLE vm_budget_tmp(
    id INT,
    rc_category_id INT,
    t_including_subcategories TEXT,
    f_budgeted REAL,
    f_budgeted_modified REAL,
    f_transferred REAL,
    i_year INT,
    i_month INT,
    t_CATEGORY,
    t_PERIOD,
    f_CURRENTAMOUNT,
    t_RULES
);  
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budget)
Nom de la contrainte: fki_budget_category_rc_category_id_id')
WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id')
WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budget)
Nom de la contrainte: fkd_budget_category_rc_category_id_id')
WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id')
WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id')
WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id')
WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par category)
Nom de la contrainte: fki_category_category_rd_category_id_id')
WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par category)
Nom de la contrainte: fku_category_category_rd_category_id_id')
WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkd_category_category_rd_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par category)
Nom de la contrainte: fkd_category_category_rd_category_id_id')
WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par category)
Nom de la contrainte: fki_category_category_rd_category_id_id')
WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par category)
Nom de la contrainte: fku_category_category_rd_category_id_id')
WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkd_category_category_rd_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par category)
Nom de la contrainte: fkd_category_category_rd_category_id_id')
WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par category)
Nom de la contrainte: fki_category_category_rd_category_id_id')
WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par category)
Nom de la contrainte: fku_category_category_rd_category_id_id) WHERE NEW.rd_category_id != 0 AND NEW.rd_category_id != "" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id != 0 AND NEW.rd_doctransaction_id != "" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransactionitem FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id != 0 AND NEW.rd_doctransaction_id != "" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id) WHERE NEW.rd_account_id != 0 AND NEW.rd_account_id != "" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM account WHERE account.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id) WHERE NEW.rd_node_id != 0 AND NEW.rd_node_id != "" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilisé par node)'
Nom de la contrainte: fku_node_node_rd_node_id_id)
WHERE NEW.rd_node_id!=0 AND
NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id')
WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id')
WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id')
WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id')
WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN
UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id')
WHERE NEW.rc_unit_id!=0 AND
NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id')
WHERE NEW.rc_unit_id!=0 AND
NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
UPDATE operation SET rc_unit_id=0 WHERE rc_unit_id=OLD.id; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id')
WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id')
WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!="" AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operation_recurrentoperation_operation_r_recurrentoperation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par operationbalance) Nom de la contrainte: fki_operation_recurrentoperation_operation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_operation_r_recurrentoperation_id_id BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance) Nom de la contrainte: fku_operation_recurrentoperation_operation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operationbalance FOR EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par operationbalance) Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance) Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par recurrentoperation) Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrentoperation) Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON suboperation FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par suboperation) Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation) Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON suboperation FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par suboperation) Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!="" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation) Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!="" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilis par suboperation) Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!="" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation) Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!="" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_rd_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (unit est utilis par unitvalue) Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue) Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unitunitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitunitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (unit est utilis par unitvalue) Nom de la contrainte: fki_unitunitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitunitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue) Nom de la contrainte: fku_unitunitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unitunitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (refund est utilis par vm_budget_tmp) Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce compte car il contient des opérations rapprochées' END) t_delete_message FROM account;
CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_category_displayname AS SELECT *, (SELECT t_fullname AS t_displayname FROM category) AS t_displayname FROM v_category;
CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y' THEN 'année(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIOD FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM v_recurrentoperation;
CREATE VIEW v_suboperation AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id),'') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id),'') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_display AS SELECT *, (CASE WHEN v_suboperation.f_value>=0 THEN 'Revenu' ELSE 'Dépense' END) AS t_TYPE, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation AS SELECT *,(SELECT count(*) FROM v_recurrentoperation WHERE v_recurrentoperation.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE FROM v_operation;
CREATE VIEW v_refund_display AS SELECT *, (SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce tiers car utilisés par des opérations rapprochées' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT * FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||'%' AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer cette catégorie car utilisée par des opérations rapprochées' END) t_delete_message FROM category;
CREATE VIEW v_category_display_tmp AS SELECT *, (SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;
CREATE VIEW v_category_display AS SELECT *, f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname||'>') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT>0 THEN '+' END) AS t_TYPEEXPENSENLS, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dépense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT>0 THEN 'Revenu' END) AS t_TYPEEXPENSENLSS FROM vm_category_display_tmp;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;
CREATE VIEW v_rule AS SELECT *, (SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Négatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN

...
budgetrule.t_absolute='N' THEN '%\n' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS,
(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant'
WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT *, t_WHATNLS||' '||t_RULENLS AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget AS SELECT *, t_DISPLAYNAME AS t_displayname FROM v_budget;
CREATE VIEW v_budgetrule_display AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||'
'||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM vm_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM vm_budget_tmp;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id || 'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id || 'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id || 'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id) END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id) END WHERE id=new.id;UPDATE category SET t_name=t_name WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;

explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/.* Goto .*/}

# The next test requires FTS4
ifcapable !fts3 {
    finish_test
    return
}

# Taken from the gnome-shell project
#
    db close
    forcedelete test.db
    sqlite3 db test.db
    do_test fuzz-oss1-gnomeshell {
        db eval {
            CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
            CREATE VIRTUAL TABLE fts USING fts4;
            CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
            CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
        "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
        "mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
        "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
        INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL, "mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL, "mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER,
"mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL, "mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL, "mlo:belongsToCategory" INTEGER NOT NULL,
"mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL, "mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL,
"mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL,
"mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL,
"mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL,
"mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER,
"mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, "mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, "mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER,
"mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:transferState" INTEGER, "mto:transferState:graph" INTEGER,
"mto:method" INTEGER, "mto:method:graph" INTEGER, "mto:created" INTEGER, "mto:created:graph" INTEGER, "mto:created:localDate" INTEGER,
"mto:created:localTime" INTEGER, "mto:account" TEXT COLLATE NOCASE, "mto:account:graph" INTEGER, "mto:starter" INTEGER,
"mto:starter:graph" INTEGER, "mto:agent" INTEGER, "mto:agent:graph" INTEGER);
CREATE TABLE "mto:TransferElement" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:source" INTEGER, "mto:source:graph" INTEGER, "mto:destination" INTEGER, "mto:destination:graph" INTEGER, "mto:startedTime" INTEGER,
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL, "mto:transferList" INTEGER NOT NULL, "mto:transferList:graph" INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT NULL, "mto:transferPrivacyLevel" TEXT NOT NULL, "mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT NULL, "mto:transferCategory" TEXT NOT NULL, "mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY, "nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph" INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE, "nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY, "nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER, "nao:description" TEXT COLLATE NOCASE, "nao:description:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL, "tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL, "tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph" INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
| CREATE TABLE \\
| "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,   \\
| "ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);  \\
| CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);  \\
| CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL,   \\
| "ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);  \\
| CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,   \\
| "ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,  \\
| "ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,  \\
| "ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,  \\
| "ncal:attachmentContent" TEXT COLLATE NOCASE,  \\
| "ncal:attachmentContent:graph" INTEGER);  \\
| CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);  \\
| CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,   \\
| "ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,  \\
| "ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,  \\
| "ncal:cutype" INTEGER, "ncal:cutype:graph" INTEGER, "ncal:member" INTEGER,  \\
| "ncal:member:graph" INTEGER, "ncal:role" INTEGER,  \\
| "ncal:role:graph" INTEGER, "ncal:rsvp" INTEGER, "ncal:rsvp:graph" INTEGER,  \\
| "ncal:partstat" INTEGER, "ncal:partstat:graph" INTEGER);  \\
| CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);  \\
| CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);  \\
| CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT NULL,  \\
| "ncal:bydayModifier" INTEGER NOT NULL,  \\
| "ncal:bydayModifier:graph" INTEGER);  \\
| CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL,  \\
| "ncal:bydayWeekday" INTEGER NOT NULL,  \\
| "ncal:bydayWeekday:graph" INTEGER);  \\
| CREATE TABLE "ncal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY,  \\
| "ncal:method" TEXT COLLATE NOCASE, "ncal:method:graph" INTEGER,  \\
| "ncal:calscale" INTEGER, "ncal:calscale:graph" INTEGER, "ncal:prodid" TEXT COLLATE NOCASE,  \\
| "ncal:prodid:graph" INTEGER, "ncal:version" TEXT COLLATE NOCASE,  \\
| "ncal:version:graph" INTEGER);  \\
| CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);  \\
| CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);  \\
| CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);  \\
| CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL,  \\
| "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);  \\
| CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY,  \\
| "ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER,  \\
| "ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);  \\
| CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);  \\
| CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);  \\
| CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY,  \\
| "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);  \\
| "ncal:repeat:graph" INTEGER); |
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL,
  "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER,
  "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER,
  "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER, "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:periodBegin" INTEGER, "ncal:periodBegin:graph" INTEGER,
  "ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime" INTEGER, "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph" INTEGER, "ncal:periodEnd" INTEGER, "ncal:periodEnd:graph" INTEGER, "ncal:periodEnd:localDate" INTEGER, "ncal:periodEnd:localTime" INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY
  KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER,
  "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:until" INTEGER, "ncal:until:graph" INTEGER,
  "ncal:until:localDate" INTEGER, "ncal:until:localTime" INTEGER,
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL,
  "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL,
  "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL,
  "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL,
  "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL,
  "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE, "ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:related" INTEGER, "ncal:related:graph" INTEGER, "ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER, "ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
"ncal:location:graph" INTEGER, "ncal:uid" TEXT COLLATE NOCASE,
"ncal:requestStatus" INTEGER, "ncal:recurrenceId" INTEGER,
"ncal:dtstamp" INTEGER, "ncal:dtstart" INTEGER,
"ncal:summary" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:dtend" INTEGER, "ncal:summary:graph" INTEGER,
"ncal:attendee:graph" INTEGER, "ncal:attendeeAltRep" INTEGER,
"ncal:exdate:graph" INTEGER, "ncal:exrule:graph" INTEGER,
"ncal:relatedToSibling:graph" INTEGER, "ncal:relatedToSibling:graph" INTEGER,
"ncal:location:graph" INTEGER, "ncal:uid:graph" INTEGER,
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId:graph" INTEGER,
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER,
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:contact:graph" INTEGER, "ncal:organizer:graph" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary:graph" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:summaryAltRep:graph" INTEGER,
"ncal:organizerAltRep:graph" INTEGER, "ncal:relatedToSiblingAltRep:graph" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:locationAltRep:graph" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary:graph" INTEGER,
"ncal:contactAltRep" INTEGER, "ncal:summaryAltRep" INTEGER,
"ncal:organizerAltRep" INTEGER, "ncal:relatedToSiblingAltRep" INTEGER,
"ncal:sequence" INTEGER, "ncal:contactAltRep:graph" INTEGER,
"ncal:summaryAltRep:graph" INTEGER, "ncal:organizerAltRep:graph" INTEGER,
"ncal:relatedToSiblingAltRep:graph" INTEGER, "ncal:sequence:graph" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary:graph" INTEGER,
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL,
"ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL,
"ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT NULL,
"ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL,
"ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL,
"ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL,
"ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
<table>
<thead>
<tr>
<th>SQL Statement</th>
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<tbody>
<tr>
<td>CREATE TABLE &quot;ncal:UnionParentClass_ncal:resources&quot; (ID INTEGER NOT NULL, &quot;ncal:resources&quot; TEXT NOT NULL, &quot;ncal:resources:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;ncal:UnionParentClass_ncal:rrule&quot; (ID INTEGER NOT NULL, &quot;ncal:rrule&quot; INTEGER NOT NULL, &quot;ncal:rrule:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;ncal:Weekday&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;nco:Affiliation&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:department&quot; TEXT COLLATE NOCASE, &quot;nco:department:graph&quot; INTEGER, &quot;nco:org&quot; INTEGER, &quot;nco:org:graph&quot; INTEGER, &quot;nco:role&quot; TEXT COLLATE NOCASE, &quot;nco:role:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;nco:Affiliation_nco:title&quot; (ID INTEGER NOT NULL, &quot;nco:title&quot; TEXT NOT NULL, &quot;nco:title:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;nco:AuthorizationStatus&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;nco:BbsNumber&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:CarPhoneNumber&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:CellPhoneNumber&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;nco:ContactGroup&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:contactGroupName&quot; TEXT COLLATE NOCASE, &quot;nco:contactGroupName:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;nco:ContactList&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;nco:ContactListDataObject&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:ContactList_nco:containsContact&quot; (ID INTEGER NOT NULL, &quot;nco:containsContact&quot; INTEGER NOT NULL, &quot;nco:containsContact:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:ContactMedium&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:contactMediumComment&quot; TEXT COLLATE NOCASE, &quot;nco:contactMediumComment:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:Contact_ncal:anniversary&quot; (ID INTEGER NOT NULL, &quot;ncal:anniversary&quot; INTEGER NOT NULL, &quot;ncal:anniversary:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:Contact_ncal:birthday&quot; (ID INTEGER NOT NULL, &quot;ncal:birthday&quot; INTEGER NOT NULL, &quot;ncal:birthday:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:Contact_nco:belongsToGroup&quot; (ID INTEGER NOT NULL, &quot;nco:belongsToGroup&quot; INTEGER NOT NULL, &quot;nco:belongsToGroup:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:Contact_nco:note&quot; (ID INTEGER NOT NULL, &quot;nco:note&quot; TEXT NOT NULL, &quot;nco:note:graph&quot; INTEGER);</td>
</tr>
</tbody>
</table>
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL,
<table>
<thead>
<tr>
<th>SQL Table Definition</th>
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<tbody>
<tr>
<td>CREATE TABLE &quot;nco:hasPostalAddress&quot; INTEGER NOT NULL, &quot;nco:hasPostalAddress:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:Role_nco:url&quot; (ID INTEGER NOT NULL, &quot;nco:url&quot; INTEGER NOT NULL, &quot;nco:url:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nco:Role_nco:websiteUrl&quot; (ID INTEGER NOT NULL, &quot;nco:websiteUrl&quot; INTEGER NOT NULL, &quot;nco:websiteUrl:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;nco:VideoTelephoneNumber&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;nco:VoicePhoneNumber&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nco:voiceMail&quot; INTEGER, &quot;nco:voiceMail:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;nfo:Application&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td>CREATE TABLE &quot;nfo:Archive&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nfo:uncompressedSize&quot; INTEGER, &quot;nfo:uncompressedSize:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nfo:ArchiveItem&quot; (ID INTEGER NOT NULL PRIMARY KEY, &quot;nfo:isPasswordProtected&quot; INTEGER, &quot;nfo:isPasswordProtected:graph&quot; INTEGER);</td>
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<tr>
<td>CREATE TABLE &quot;nfo:Attachment&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nfo:BookmarkFolder&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nfo:BookmarkFolder_nfo:containsBookmark&quot; (ID INTEGER NOT NULL, &quot;nfo:containsBookmark&quot; INTEGER NOT NULL, &quot;nfo:containsBookmark:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nfo:BookmarkFolder_nfo:containsBookmarkFolder&quot; (ID INTEGER NOT NULL, &quot;nfo:containsBookmarkFolder&quot; INTEGER NOT NULL, &quot;nfo:containsBookmarkFolder:graph&quot; INTEGER);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nfo:CompressionType&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nfo:Cursor&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nfo:DataContainer&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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</table>
| CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:originalLocation" TEXT COLLATE NOCASE, "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>nfo:Image_nfo:hasRegionOfInterest</td>
<td>(ID INTEGER NOT NULL, nfo:hasRegionOfInterest INTEGER NOT NULL, nfo:hasRegionOfInterest:graph INTEGER)</td>
</tr>
<tr>
<td>nfo:MediaFileListEntry</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, nfo:listPosition REAL, nfo:listPosition:graph INTEGER, nfo:entryUrl TEXT COLLATE NOCASE, nfo:entryUrl:graph INTEGER)</td>
</tr>
<tr>
<td>nfo:MediaList</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, nfo:entryCounter INTEGER, nfo:entryCounter:graph INTEGER, nfo:listDuration INTEGER, nfo:listDuration:graph INTEGER)</td>
</tr>
<tr>
<td>nfo:MediaList_nfo:hasMediaFileListEntry</td>
<td>(ID INTEGER NOT NULL, nfo:hasMediaFileListEntry INTEGER NOT NULL, nfo:hasMediaFileListEntry:graph INTEGER)</td>
</tr>
<tr>
<td>nfo:MediaList_nfo:mediaListEntry</td>
<td>(ID INTEGER NOT NULL, nfo:mediaListEntry INTEGER NOT NULL, nfo:mediaListEntry:graph INTEGER)</td>
</tr>
<tr>
<td>nfo:MediaStream</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
</tr>
<tr>
<td>nfo:Media_mtp:hidden</td>
<td>(ID INTEGER NOT NULL, mtp:hidden INTEGER NOT NULL, mtp:hidden:graph INTEGER)</td>
</tr>
<tr>
<td>nfo:Media_nmm:alternativeMedia</td>
<td>(ID INTEGER NOT NULL, nmm:alternativeMedia INTEGER NOT NULL, nmm:alternativeMedia:graph INTEGER)</td>
</tr>
<tr>
<td>nfo:MindMap</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<td>nfo:Note</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td>nfo:OperatingSystem</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td>nfo:Orientation</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
</tr>
<tr>
<td>nfo:PaginatedTextDocument</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, nfo:pageCount INTEGER, nfo:pageCount:graph INTEGER)</td>
</tr>
<tr>
<td>nfo:PlainTextDocument</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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</tbody>
</table>
CREATE TABLE "nie:description" TEXT COLLATE NOCASE, "nie:description:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph" INTEGER,
"nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:depends" INTEGER, "nie:depends:graph" INTEGER, "nie:copyright" TEXT COLLATE NOCASE, "nie:copyright:graph" INTEGER,
"nie:depends" INTEGER, "nie:depends:graph" INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:copyright" TEXT COLLATE NOCASE, "nie:copyright:graph" INTEGER,
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"nie:depends" INTEGER, "nie:depends:graph" INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER,
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER, "nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER, "nmm:musicCDIdentifier" TEXT COLLATE NOCASE, "nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER, "nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL, "nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash" TEXT COLLATE NOCASE, "nmm:flash:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
| CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER); |
| CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER); |
| CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER); |
| CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER); |
| CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "rdfs:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER NOT NULL); |
| CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:notify" INTEGER, "tracker:notify:graph" INTEGER); |
| CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER); |
| CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER); |

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CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:calendarUserType" INTEGER, "scal:calendarUserType:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
  "scal:recurrencePattern" TEXT COLLATE NOCASE,
  "scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate"
  INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception"
  INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY,
  "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER,
  "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER,
  "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
  "scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER, "scal:due"
  INTEGER, "scal:due:graph" INTEGER, "scal:completed" INTEGER,
  "scal:completed:graph" INTEGER, "scal:percentComplete" INTEGER,
  "scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude"
  REAL, "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL,
  "slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
  "slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
  "slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
  "slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLongitudeMin"
  REAL, "slo:boundingLongitudeMin:graph" INTEGER, "slo:boundingLatitudeMax"
  REAL, "slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL,
  "slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
  "slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
  "slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
  "slo:postalAddress:graph" INTEGER);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
  "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT
  NULL, "slo:belongsToCategory" INTEGER NOT NULL,
  "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
  "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
  "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
  "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp"ifié on "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp"illé);
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" on "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius"illé);
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" on "mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable"illé);
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" on "mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory"illé);
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" on "mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation"illé);
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" on "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit"illé);
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" on "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID, "mlo:boxNorthLimit"illé);
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" on "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner"illé);
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" on "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit"illé);
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" on "mlo:Route_mlo:endTime" (ID, "mlo:endTime"illé);
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" on "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails"illé);
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" on "mlo:Route_mlo:startTime" (ID, "mlo:startTime"illé);
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" on "mto:Transfer_mto:transferList" (ID, "mto:transferList"illé);
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" on "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel"illé);
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" on "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory"illé);
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" on "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag"illé);
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" on "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo"illé);
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" on "ncal:Alarm_ncal:action" (ID, "ncal:action"illé);
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" on "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier"illé);
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayWeekday_ID_ID" on "ncal:BydayRulePart_ncal:bydayWeekday" (ID, "ncal:bydayWeekday"illé);
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" on "ncal:Calendar_ncal:component" (ID, "ncal:component"illé);
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component" (ID, "ncal:component")
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:nCalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:nCalRelation" (ID, "ncal:nCalRelation")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule")
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title")
"nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON
"nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON
"nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON
"nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON
"nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON
"nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON
"nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON
"nco:Contact_cal:anniversary" (ID, "cal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_cal:anniversary_ID_ID" ON
"nco:Contact_cal:birthday" (ID, "cal:birthday");
CREATE UNIQUE INDEX "nco:Contact_cal:birthday_ID_ID" ON
"nco:Contact_cal:birthday" (ID, "cal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON
"nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON
"nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON
"nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact"
("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber"
("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON
"nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON
"nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON
"nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON
"nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON
"nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON
"nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON
"nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON
"nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON
"nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url"
(ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON
"nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID"
ON "nie:InformationElement_nie:isLogicalPartOf" (ID,
"nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID"
ON "nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID"
ON "nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON
"nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID"
ON "nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID"
ON "nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:Video_nmm:musicAlbum" ON "nmm:MusicPiece"
("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece"
("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID"
ON "nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID"
ON "nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID"
ON "nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID"
ON "nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID"
ON "nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID"
ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID_ID"
ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON
"nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID"
ON "nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID"
ON "nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID"
ON "nmo:Message_nmo:cc" (ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message"
("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message" (
"nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON "nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON "nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON "nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON "nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON "nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to" ("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON "nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON "nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID, "nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdf:Property_rdfs:subPropertyOf_ID_ID" ON "rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON "rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON "rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON "rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON "rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON "rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM "nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM "nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM "nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE),? COLLATE NOCASE||COALESCE((SELECT "nco:imNickname" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE),? FROM (SELECT "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS "3_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation2", "nco:Role_nco:hasIMAddress" AS "nco:Role_nco:hasIMAddress3" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" = "nco:Role_nco:hasIMAddress3"."ID")), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:phoneNumber" FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, ?)) FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS "4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation4", "nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = "nco:Role_nco:hasPhoneNumber5"."ID")), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:emailAddress" FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ?)) FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress" AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation6", "nco:Role_nco:hasEmailAddress" AS "nco:Role_nco:hasEmailAddress7" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" = "nco:Role_nco:hasEmailAddress7"."ID")), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT Uri FROM Resource WHERE ID = "nco:blogUrl"),?) FROM "nco:Role_nco:blogUrl" WHERE ID = "2_u")) COLLATE NOCASE, (SELECT Uri FROM Resource WHERE ID = "nco:websiteUrl"),?) FROM "nco:Role_nco:websiteUrl" WHERE ID = "2_u") COLLATE NOCASE, (SELECT Uri FROM Resource WHERE ID = "nco:blogUrl"),?)
"nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPostalAddress12","nco:hasPostalAddress" AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS "nco:Role_nco:hasPostalAddress12" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation11","ID" AND "nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" = "nco:Role_nco:hasPostalAddress12","ID"), (SELECT GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT "nie:InformationElement_nao:hasProperty13","nao:hasProperty" AS "8_u", "nao:Property14","nao:propertyName" AS "9_u", "nao:Property14","nao:propertyValue" AS "10_u" FROM "nie:InformationElement_nao:hasProperty" AS "nie:InformationElement_nao:hasProperty13", "nao:Property" AS "nao:Property14" WHERE "1_u" = "nie:InformationElement_nao:hasProperty13","ID" AND "nie:InformationElement_nao:hasProperty13","nao:hasProperty" = "nao:Property14","ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT NULL AND "9_u" COLLATE NOCASE = ? COLLATE NOCASE)) FROM (SELECT "nco:PersonContact1","ID" AS "1_u" FROM "nco:PersonContact" AS "nco:PersonContact1");

} {/.* Goto .*/}

finish_test

Found in path(s):

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</p><p>SQLite itself is in the <a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.</p>

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procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
procset Adobe_CoolType_Utility_T42 1.0 0
procset Adobe_AGM_Image 1.0 0

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* %BeginResource
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/
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** ** May you do good and not evil.
** ** May you find forgiveness for yourself and forgive others.
** ** May you share freely, never taking more than you give.
**
*********************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**  * General-purpose declarations and utility functions.
**  * Unique file ID logic used by VxWorks.
**  * Various locking primitive implementations (all except proxy locking):
** + for Posix Advisory Locks
** + for no-op locks
** + for dot-file locks
** + for flock() locking
** + for named semaphore locks (VxWorks only)
** + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking methods plus “finder” functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uberklocking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src-cosi-expand-archive-koQ6tDfi/sqlite-
src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/src/os_unix.c
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<a href="copyright.html">public domain</a>.</p>

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src-cosi-expand-archive-koQ6tDfi/sqlite-
doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/index.html
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
* 1 index 0(BadFont
No license file was found, but licenses were detected in source scan.

is free to use SQLite from multiple threads, but it must make sure

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src-cosi-expand-archive-koQ6tDfi/sqlite-
doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/custombuild.html
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: [configuration option]
**
** These constants are the available integer configuration options that
can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** 
** [[SQLite_CONFIG_SINGLETHREAD]] <dt>SQLite_CONFIG_SINGLETHREAD</dt>
** 
** <dd>There are no arguments to this option. This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITe_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLite_CONFIG_MULTITHREAD]] <dt>SQLite_CONFIG_MULTITHREAD</dt>
**
** <dd>There are no arguments to this option. This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLite_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLite_CONFIG_SERIALIZED]] <dt>SQLite_CONFIG_SERIALIZED</dt>
**
** <dd>There are no arguments to this option. This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLite_CONFIG_SERIALIZED configuration option.</dd>
**
**
** [SQLITE_CONFIG_MALLOC] <dt>SQLITE_CONFIG_MALLOC</dt>  
** <dd> *(This option takes a single argument which is a pointer to an  
** instance of the [sqlite3_mem_methods] structure. The argument specifies  
** alternative low-level memory allocation routines to be used in place of  
** the memory allocation routines built into SQLite.)* ^SQLite makes  
** its own private copy of the content of the [sqlite3_mem_methods] structure  
** before the [sqlite3_config()] call returns.</dd>  
**  
** [SQLITE_CONFIG_GETMALLOC] <dt>SQLITE_CONFIG_GETMALLOC</dt>  
** <dd> *(This option takes a single argument which is a pointer to an  
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]  
** structure is filled with the currently defined memory allocation routines.)*  
** This option can be used to overload the default memory allocation  
** routines with a wrapper that simulations memory allocation failure or  
** tracks memory usage, for example. </dd>  
**  
** [SQLITE_CONFIG_MEMSTATUS] <dt>SQLITE_CONFIG_MEMSTATUS</dt>  
** <dd> *(This option takes single argument of type int, interpreted as a  
** boolean, which enables or disables the collection of memory allocation  
** statistics. *(When memory allocation statistics are disabled, the  
** following SQLite interfaces become non-operational:  
** <ul>  
** <li> [sqlite3_memory_used()]  
** <li> [sqlite3_memory_highwater()]  
** <li> [sqlite3_soft_heap_limit64()]  
** <li> [sqlite3_status()]  
** </ul>*  
** Memory allocation statistics are enabled by default unless SQLite is  
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory  
** allocation statistics are disabled by default. </dd>  
**  
** [SQLITE_CONFIG_SCRATCH] <dt>SQLITE_CONFIG_SCRATCH</dt>  
** <dd> *(This option specifies a static memory buffer that SQLite can use for  
** scratch memory. There are three arguments: A pointer an 8-byte  
** aligned memory buffer from which the scratch allocations will be  
** drawn, the size of each scratch allocation (sz),  
** and the maximum number of scratch allocations (N). The sz  
** argument must be a multiple of 16.  
** The first argument must be a pointer to an 8-byte aligned buffer  
** of at least sz*N bytes of memory.  
** SQLite will use no more than two scratch buffers per thread. So  
** N should be set to twice the expected maximum number of threads.  
** SQLite will never require a scratch buffer that is more than 6  
** times the database page size. *(If SQLite needs needs additional  
** scratch memory beyond what is provided by this configuration option, then  
** [sqlite3_malloc()] will be used to obtain the memory needed.* </dd>  
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd>^
This option specifies a static memory buffer that SQLite can use for
** the database page cache with the default page cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
** to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd>^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLite's memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd>^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire muting subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** [SQLITE_ERROR].</dt>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dt>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(This option sets the
** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.)^  ^SQLite makes a copy of the
** object and uses it for page cache memory allocations.</dt>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object.  SQLite copies of the current
** page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()]) to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an ** extended result code. ^The third parameter passed to the logger is ** log message after formatting via [sqlite3_snprintf()].

** The SQLite logging interface is not reentrant; the logger function ** supplied by the application must not invoke any SQLite interface.

** In a multi-threaded application, the application-defined logger ** function must be threadsafe. </dd>

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd> This option takes a single argument of type int. If non-zero, then ** URI handling is globally enabled. If the parameter is zero, then URI handling ** is globally disabled. If URI handling is globally enabled, all filenames ** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or ** specified as part of [ATTACH] commands are interpreted as URIs, regardless ** of whether or not the [SQLITE_OPEN_URI] flag is set when the database ** connection is opened. If it is globally disabled, filenames are ** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the ** database connection is opened. By default, URI handling is globally ** disabled. The default value may be changed by compiling with the ** [SQLITE_USE_URI] symbol defined.

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd> This option takes a single integer argument which is interpreted as ** a boolean in order to enable or disable the use of covering indices for ** full table scans in the query optimizer. The default setting is determined ** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on" ** if that compile-time option is omitted.

** The ability to disable the use of covering indices for full table scans ** is because some incorrectly coded legacy applications might malfunction ** malfunction when the optimization is enabled. Providing the ability to ** disable the optimization allows the older, buggy application code to work ** without change even with newer versions of SQLite.

** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.

** They are retained for backwards compatibility but are now no-ops.

** </dd>

** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd> This option is only available if sqlite is compiled with the ** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should ** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).

** The second should be of type (void*). The callback is invoked by the library ** in three separate circumstances, identified by the value passed as the ** fourth parameter. If the fourth parameter is 0, then the database connection ** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL in this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
**
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dl>
*/

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*********************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
#$Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.
#
do_test fts2c-1.1 {
db eval {
    CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
    BEGIN TRANSACTION;
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

    The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

    ?If the transaction volume on the child is less than half of the parent's minimum volume no hedge will occur.
    ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
    ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

    Please see example below:

    Parent's Settings:
    Minimum: 5000
    Increment: 1000

    Volume on Autohedge transaction|Volume Hedged
    1 - 24990
    2500 - 54995000
    5500 - 64996000);
    INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);
    INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

    Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001


-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001


');

INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.
Regards
Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com','lindy.donoho@enron.com','FW: Bus Applications Meeting Follow Up','Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com','fran.fagan@enron.com','RE: worksheets','Fran,

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.

Thanks.

Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.
Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com',
'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR
LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE
GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com,
bilal.bajwa@enron.com, john.griffith@enron.com;', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)
', 'The
+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d
ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com',
'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our
credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com',
'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to
you.);
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com',
'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com',
'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power
Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your
daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');

You are invited to attend the EWS Brown Bag Lunch Series

Featuring:  RAY BOWEN, COO

Topic:  Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "'chris.germany@enron.com'" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.html

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com', ', TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ;
LS HPL LSK IC       30.000 / Enron
LS HPL LSK IC       30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.
');
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160;

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295;

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat
PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
"Marymankarious@mhhs.org", "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

Thanks

------------------------ Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra
Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is
extremely important that any deal booked to the East is communicated quickly
to someone on my team. I know it will take some time for the new names to
sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.
New:
Scott Neal: East Northeast
Dick Jenkins: East Market East

WK
');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,
JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject, body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject, body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject, body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject, body) VALUES('messenger@smartreminders.com', 'm.,tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch);

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia
Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc: 
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

--- 2001Summer.doc

');

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com','Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '"

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,
Its been a real pleasure working with you (even though it was for only a small amount of time) 
I hope we can stay in touch.

Home# 234-0249 
email: kpunja@hotmail.com 

Take Care, 

Karim.

'); 
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com;', 'email address change', 'Hello all.

I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

 bjm30@earthlink.net 

I hope all is well.

Brian McGuinn'); 
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley'); 
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com;', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference 

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,'
I’ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

'):;
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,
In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:
PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King
If you need to know their power desk to map their ID to their gas books, those desks are as follows:
EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King
I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.
Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the attached.
ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com);
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays. PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie
Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/

');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip’;
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com’;

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.
Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com',
'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com',
'c..kenne@enron.com', 'RE:
What about this too???,

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.
Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 968')
'RE': 'duke contact?'

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject: 

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000);

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg);

COMMIT;

} 
} 

******************************************************************************
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
******************************************************************************

do_test fts2c-1.2 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
}
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
}
}
do_test fts2c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
}

do_test fts2c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
}

do_test fts2c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '“mark susan”'
  }
}

do_test fts2c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
}

do_test fts2c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
}

do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#

do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
}

do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 \{2 \ 1 \ 54 \ 8 \ 3 \ 0 \ 42 \ 3 \ 3 \ 1 \ 54 \ 8 \ 3 \ 0 \ 129 \ 3 \ 3 \ 0 \ 143 \ 3 \ 3 \ 0 \ 240 \ 3\}}

do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 \{2 \ 0 \ 42 \ 3 \ 2 \ 1 \ 54 \ 8\}}

do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 \{3 \ 0 \ 42 \ 3 \ 3 \ 1 \ 54 \ 8 \ 3 \ 0 \ 129 \ 3 \ 3 \ 0 \ 143 \ 3 \ 3 \ 0 \ 240 \ 3\}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 \{3 \ 0 \ 94 \ 5 \ 3 \ 0 \ 114 \ 5 \ 3 \ 0 \ 207 \ 5 \ 3 \ 1 \ 213 \ 7 \ 3 \ 0 \ 245 \ 5 \ 3 \ 1 \ 251 \ 7 \ 3 \ 0 \ 409 \ 5 \ 3 \ 1 \ 415 \ 7 \ 3 \ 1 \ 493 \ 7\}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"
  }
} {32 \{3 \ 0 \ 207 \ 5 \ 3 \ 1 \ 213 \ 7 \ 3 \ 0 \ 245 \ 5 \ 3 \ 1 \ 251 \ 7 \ 3 \ 0 \ 409 \ 5 \ 3 \ 1 \ 415 \ 7\}}

# Snippet generator tests
#
do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} \{\{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>\}]
do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}
do_test fts2c-4.3 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'deal sheet potential reuse'
}
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
  Review Enron asset base for potential <b>reuse</b>/ licensing
  Contract negotiations
}]
do_test fts2c-4.4 {
execsql {
  SELECT snippet(email,'<<<','>>>',' ') FROM email
  WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
  Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
  Contract negotiations
}]
do_test fts2c-4.5 {
execsql {
  SELECT snippet(email,'<<<','>>>',' ') FROM email
  WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the
}]
do_test fts2c-4.6 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'chris is here'
}
} {{<b>chris</b>.germany@enron.com Sounds good to me. I bet this <b>is</b> next to the Warick?!
Hotel. <b>...</b> place. What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts2c-4.7 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH "pursuant to"
}
} {{Erin: <b>Pursuant</b> to your request, attached are the Schedule to <b>...</b>}}
do_test fts2c-4.8 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'ancillary load davis'
}
LOG MESSAGES:

PARSING ...

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@enron.com ... six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...

} {{matt.smith@enron.com ... six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...

finish_test

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

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.
application code is free to use these routines as well, if desired.

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

Found in path(s):

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

Sources are in the public domain.
Rather than using fopen() to write XML or some proprietary format into

Found in path(s):

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

public domain and so many groups use SQLite

Found in path(s):

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

public domain.

Found in path(s):

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

Proprietary SQLite Extensions

You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):

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

Proprietary licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

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

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:</p>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>
<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>
<p><b>Charlotte, North Carolina - December 12, 2007</b> - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.</p>
<p>SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.</p>
<p>The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.</p>
<p>Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.</p>
<p>"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."</p>
<p>"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQLite Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful..."</p>
and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible.”</p>

<p>SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.</p>

<p><center>###</center></p>

<p><b>About SQLite</b></p>

<p>SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.</p>

<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

<p><br>CONTACT INFORMATION:<br>SQLite Consortium<br>Dr. D. Richard Hipp<br>6200 Maple Cove Lane<br>Charlotte, NC 28269<br>Email: drh@sqlite.org<br>http://www.sqlite.org<br>Tel: +1.704.948.4565</p>

<p><b>About Mozilla</b></p>

<p>Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.</p>

<p>CONTACT INFORMATION:</p>
About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

CONTACT INFORMATION:
Symbian Global Press Office
Karen Hamblen
+44 207 154 1707
press@symbian.com

CONTACT INFORMATION:
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Karen Hamblen
+44 207 154 1707
press@symbian.com

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

Public Domain

the public domain and originals of author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require the public domain.  
their contributions to the public domain.

in this code to the public domain.  We make this dedication for the benefit
No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

Found in path(s):

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

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

Found in path(s):

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

MMFauxFont.prc

Found in path(s):
  * %%%BeginFile

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

%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %name
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %version
Release: %release
Source: %name-%version.tar.gz
Group: System/Libraries
URL: http://www.sqlite.org/
License: Public Domain
BuildRoot: %__tmppath%name-%version-root

%description
SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine.
Programs that link with the SQLite library can have SQL database access without running a separate RDBMS process. The distribution comes with a standalone command-line access program (sqlite) that can be used to administer an SQLite database and which serves as an example of how to use the SQLite library.

%package -n %name-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed
to develop programs that use the SQLite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="-%optflags -DNDEBUG=1" CXXFLAGS="-%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}
make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite3.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

Found in path(s):

No license file was found, but licenses were detected in source scan.
application is free to use the same database connection or the

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

Suppose the demo_data.boundary field holds some proprietary data description

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

/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
*/

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

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#/*****/
This file implements regression tests for SQLite library. The focus of this script is testing the FTS3 module.

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if !fts3 {finish_test return}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.

do_test fts3ac-1.1 {
  db eval {
    CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
    BEGIN TRANSACTION;
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com', 'traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

    The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

    ?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
    ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
    ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

    Please see example below:

    Parent’s Settings:
    Minimum: 5000
    Increment: 1000

    Volume on Autohedge transactionVolume Hedged
    1      - 24990
    2500 - 54995000
    5500 - 64996000);
    INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
    If it’s ok with everyone’s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);

INSERT INTO email((from),(to),(subject),(body)) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<Concur Expense Document> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email((from),(to),(subject),(body)) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');

INSERT INTO email((from),(to),(subject),(body)) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email((from),(to),(subject),(body)) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
Greater Houston Partnership

Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey"

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy"

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well. Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,' , 'TRV Notification: (NG - PROPT P/L - 09/27/2001)' , 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toe_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001> , published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

---
Jim

');

INSERT INTO email(from,to,subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin),WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');

INSERT INTO email(from,to,subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email(from,to,subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>

?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com.', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com', ', 'TRV Notification: (West VaR - 11/07/2001)’, The report named: West VaR
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com', ', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC
LS HPL LSK IC 30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer
practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295);
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
"Marymankarious@mhhs.org>>, "Ramy Mankarious (E-mail)"
"mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

Thanks
--------------- Forwared by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------
Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

I saw it. Very interesting.

Vince
"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
c:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf
Dear SmartReminders Member,

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here. SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

Sue Mara
Enron Corp.
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch');

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

-------------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 --------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,
These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia


');

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   - Finalize market analysis to refine business case, specifically projected revenue stream
   - Complete counterparty surveying, including targeting 3 CPs for letters of intent
   - Review Enron asset base for potential reuse/ licensing
   - Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc) - accenture-dealpoints v2.doc ');

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '-------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard
-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

);INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com','email address change','Hello all.

I haven't talked to many of you via email recently but I do want to give you
my new address for your email file:

    bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:  
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King
If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com',
'Postings', 'Please see the attached.

ds

')

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com,
james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will
have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn’t sure whether he transmitted them to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files
or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu,
gbsonna@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben
Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB
rumor mill. Hope things are well, happy holidays.
PL');
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.heaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', '.bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg, 

')
I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

w w w.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '('

-----Original Message-----
From: Grace, Rebecca M.
Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent:Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,' , 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,'
L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

```
Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490)

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)
Chairperson: Outlook Migration Team

Detailed Description:');
INSERT INTO email([from], [to], subject, body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from], [to], subject, body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from], [to], subject, body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

---Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

---Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

---Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral Jeff Whitnah 713-767-5374
Relaint Steve McGinn 713-207-4000

Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:
PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
        Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

);
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');

    COMMIT;

    } }
do_test fts3ac-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
  }
} {}
do_test fts3ac-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts3ac-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
  }
}
WHERE email MATCH 'gas reminder'
} {20 [2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
do_test fts3ac-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
} {20 [2 0 42 3 2 1 54 8 3 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
do_test fts3ac-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
} {20 [2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
do_test fts3ac-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
} {20 [2 0 42 3 2 1 54 8]}
do_test fts3ac-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
} {20 [3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}

# Document 32 contains 5 instances of the world "child". But only # 3 of them are paired with "product". Make sure only those instances # that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
} {32 [3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7]}
do_test fts3ac-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
} {32 [3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7]}

# Snippet generator tests #
do_test fts3ac-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
}

{{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}

do_test fts3ac-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}
}

{{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}

do_test fts3ac-4.3 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
}

{{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}

do_test fts3ac-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
}

{{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}

do_test fts3ac-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
}

{{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}

do_test fts3ac-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
}

{{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}

do_test fts3ac-4.7 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'pursuant to'
}
}

{{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together...

```
do_test fts3ac-4.8 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
}

{{pete.davis@enron.com...3; No ancillary schedules awarded detected in Load schedule.

LOG...
```

# Combinations of AND and OR operators:
#
```
do_test fts3ac-5.1 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
}
}

{{matt.smith@enron.com...31 Keystone Receipts 15 Questar Pipeline 40 Rockies...

```
do_test fts3ac-5.2 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
}

{{matt.smith@enron.com...31 Keystone Receipts 15 Questar Pipeline 40 Rockies...

#--------------------------------------------------------------
# Test a problem reported on the mailing list.
#
```
do_test fts3ac-6.1 {
exesql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES('', 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
}

{{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
exesql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}

```

SQLite is in the public domain. This document describes what that means.

SQLite core and like the SQLite core are in the public domain. The test harness is a set of proprietary tests, written in

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions.

/*
The "printf" code that follows dates from the 1980's. It is in
the public domain. The original comments are included here for
completeness. They are very out-of-date but might be useful as
an historical reference. Most of the "enhancements" have been backed
out so that the functionality is now the same as standard printf().

**************************************************************************
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-
src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/src/printf.c

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

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
##
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
##
#**************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
This test data is taken from http://www.tartarus.org/martin/PorterStemmer/  
There is no claim of copyright made on that page, but you should probably contact the author (Martin Porter - the inventor of the Porter Stemmer algorithm) if you want to use this test data in a commercial product of some kind. The stemmer code in FTS1 is a complete rewrite from scratch based on the algorithm specification and does not contain any code under copyright.

set porter_test_data {
  a a
  aaron aaron
  abaissiez abaissiez
  abandon abandon
  abandoned abandon
  abase abas
  abash abash
  abate abat
  abated abat
  abatement abat
  abatements abat
  abates abat
  abbess abbess
  abbey abbei
  abbeys abbei
  abominable abomin
  abbot abbot
  abbots abbot
  abbreviated abbrevi
  abed ab
  abel abel
  aberga aberga
  abergavenny abergavenni
  abet abet
  abetting abet
  abhominable abhomin
  abhor abhor
  abhorr abhorr
  abhorred abhor
  abhorring abhor
  abhors abhor
  abhorson abhorson
  abide abid
  abides abid
  abilities abil
  ability abil
  abject abject
  abjectly abjectli
  abjects abject

add
added
adder
adders
addeth
addict
addicted
addiction
adding
addition
additions
adder
address
addressing
addrest
adds
adhere
adheres
adieu
adieu
adjacent
adjoin
adjoining
adjourn
adjudge
adjudged
adjudg
adjunct
administer
administration
administer
admire
admired
admirer
admiring
admiringly
admonish
admonishing
admonishment
admonishments
allhallowmas    allhallowma
alliance        allianc
allicholy       allicholi
allied          alli
allies          alli
alligant        allig
alligator       allig
allons          allon
allot           allot
allots          allot
allotted        allot
allottery       allotteri
allow           allow
allowance       allow
allowed         allow
allowing        allow
allows          allow
allur           allur
allure          allur
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# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
    CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
    execsql {
        DELETE FROM t1_term;
        DELETE FROM t1_content;
        INSERT INTO t1(word) VALUES($pfrom);
        SELECT term FROM t1_term;
    }
    $pto

    finish_test

    Found in path(s):

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

    SQLite is open source, and is available in the public domain
other proprietary or non-standard VFSes.

/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

{string currentfile exch readstring pop}executeonly def

application is free to use the same <a href="/c3ref/sqlite3.html">database connection</a> or the

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.


#***********************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
  execsql {CREATE TABLE tbl1(t1 text)}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}

# Check out the length() function
#
do_test func-1.0 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}

do_test func-1.1 {
  set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}

do_test func-1.2 {
  set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}

# Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 1504
execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1.3 -1.5}

# Check out the substr() function
#
do_test func-2.0 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
  execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {rs r o h}
do_test func-2.2 {
  execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {es mes}
do_test func-2.4 {
  execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {es mes}
do_test func-2.5 {
  execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {ei ar i}
do_test func-2.6 {
  execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
  execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
  execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
  execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u"u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
  execsql {DELETE FROM tbl1}
  foreach word "contains UTF-8 characters hi\u1234ho" {

execsql "INSERT INTO tbl1 VALUES('Sword')" }
execsql {SELECT t1 FROM tbl1 ORDER BY t1 } "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
execsql {SELECT length(t1) FROM tbl1 ORDER BY t1 }
} {5 10 8 5 }
do_test func-3.2 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1 }
} {UT ch co hi}
do_test func-3.3 {
execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1 }
} "UTF cha con hi\u1234"
do_test func-3.4 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1 }
} "TF ha on i\u1234"
do_test func-3.5 {
execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1 }
} "TF- har ont i\u1234h"
do_test func-3.6 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1 }
} "F- ar nt \u1234h"
do_test func-3.7 {
execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1 }
} "-8 ra ta ho"
do_test func-3.8 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1 }
} "8 s s o"
do_test func-3.9 {
execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1 }
} "F- er in \u1234h"
do_test func-3.10 {
execsql {SELECT substr(t1,-3,3) FROM tbl1 ORDER BY t1 }
} "TF- ter ain i\u1234h"
do_test func-3.99 {
execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
  execsql "INSERT INTO tbl1 VALUES('Sword')"
}
execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End \u1234!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {

execsql {
  CREATE TABLE t1(a,b,c);
  INSERT INTO t1 VALUES(1,2,3);
  INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
  INSERT INTO t1 VALUES(3,-2,-5);
}
catchsql {SELECT abs(a,b) FROM t1}
| 1 {wrong number of arguments to function abs()} }
}
ifcapable floatingpoint {
do_test func-4.1 {
  execsql {
    CREATE TABLE t1(a,b,c);
    INSERT INTO t1 VALUES(1,2,3);
    INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
    INSERT INTO t1 VALUES(3,-2,-5);
  }
catchsql {SELECT abs(a,b) FROM t1}
| 1 {wrong number of arguments to function abs()} }
}
do_test func-4.2 {
catchsql {SELECT abs() FROM t1}
| 1 {wrong number of arguments to function abs()} }
ifcapable floatingpoint {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
| 0 {2 1.2345678901234 2}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
| 0 {3 12345.6789 5}
}
ifcapable !floatingpoint {
if {{working_64bit_int}} {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
| 0 {2 12345678901234 2}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
| 0 {3 1234567890 5}
}
do_test func-4.4.1 {
  execsql {SELECT abs(a) FROM t2}
| 1 {} 345 {} 67890}
do_test func-4.4.2 {
  execsql {SELECT abs(t1) FROM tbl1}
| 0.0 0.0 0.0 0.0 0.0}
if capable floatingpoint {
  do_test func-4.5 {
    catchsql {SELECT round(a,b,c) FROM t1}
  } {1 {wrong number of arguments to function round()}}
  do_test func-4.6 {
    catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
  } {0 {-2.0 1.23 2.0}}
  do_test func-4.7 {
    catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
  } {0 {2.0 1.0 -2.0}}
  do_test func-4.8 {
    catchsql {SELECT round(c) FROM t1 ORDER BY a}
  } {0 {3.0 -12346.0 -5.0}}
  do_test func-4.9 {
    catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
  } {0 {3.0 -12345.68 -5.0}}
  do_test func-4.10 {
    catchsql {SELECT round() FROM t1 ORDER BY a}
  } {1 {wrong number of arguments to function round()}}
  execsql {SELECT round(a,2) FROM t1}
  execsql {SELECT round(b,0) FROM t1}
  execsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
  } {-2.0 1.23 2.0}
  # Verify some values reported on the mailing list.
  # Some of these fail on MSVC builds with 64-bit long doubles, but not on GCC builds with 80-bit long doubles.
  for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
    set x2 [expr 40223.0 + $i]
    do_test func-4.17.$i {
      execsql {SELECT round($x1);} $x2
    }
  }
}
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.05 + $i]
    set x2 [expr 40222.10 + $i]
    do_test func-4.18.$i {
        execsql {SELECT round($x1,1);}
    } $x2
}
do_test func-4.20 {
    execsql {SELECT round(40223.49999999999);}
} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.49999999999);}
} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.49999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.5}
    do_test func-4.24.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.5}
    do_test func-4.25.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.4999999999}
    do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.4999999999}
    do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.4999999999}
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(1234567891.5);}
} {1234567892.0}
do_test func-4.31 {
    execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.32 {
    execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
execsql {SELECT round(1234567890123.5);} {1234567890124.0}
do_test func-4.33 {
  execsql {SELECT round(1234567890123.5);} {1234567890123.0}
do_test func-4.34 {
  execsql {SELECT round(1234567890123.35,1);} {1234567890123.4}
do_test func-4.35 {
  execsql {SELECT round(1234567890123.445,2);} {1234567890123.45}
do_test func-4.36 {
  execsql {SELECT round(9999999999999.5);} {9999999999999.556}
do_test func-4.37 {
  execsql {SELECT round(9999999999999.55,1);} {9999999999999.56}
}

## Test the upper() and lower() functions

#
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2} {1 1 345 345 67890 67890}
if capable !icu {
  do_test func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2} {1 {wrong number of arguments to function upper()}}
  }
do_test func-5.5 {
    catchsql {SELECT upper(*) FROM t2} {1 {wrong number of arguments to function upper()}}
  }
# Test the coalesce() and nullif() functions

#
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2} {1 xyz 345 xyz 67890}
do_test func-6.2 {

execsql {SELECT coalesce(upper(a),'nil') FROM t2}  
} {1 nil 345 nil 67890}  
do_test func-6.3 {  
execsql {SELECT coalesce(nullif(1,1),'nil')}  
} {nil}  
do_test func-6.4 {  
execsql {SELECT coalesce(nullif(1,2),'nil')}  
} {1}  
do_test func-6.5 {  
execsql {SELECT coalesce(nullif(1,NULL),'nil')}  
} {1}

# Test the last_insert_rowid() function
#  
do_test func-7.1 {  
excsql {SELECT last_insert_rowid()}  
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#  
ifcapable floatingpoint {  
do_test func-8.1 {  
ifcapable explain {  
execsql {EXPLAIN SELECT sum(a) FROM t2;}  
}  
excsql {  
    SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;  
}  
} } {68236 3 22745.33 1 67890 5}  
} ifcapable !floatingpoint {  
do_test func-8.1 {  
ifcapable explain {  
execsql {EXPLAIN SELECT sum(a) FROM t2;}  
}  
excsql {  
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;  
}  
} } {68236 3 22745.0 1 67890 5}  
}  
do_test func-8.2 {  
excsql {  
    SELECT max('z+'||a,'abcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t2;  
}  
} {z+67890abcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}

ifcapable tempdb {
do_test func-8.3 {
  execsql {
    CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ')
    FROM t3;
  }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
else {
  do_test func-8.3 {
    execsql {
      CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
      SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ')
      FROM t3;
    }
  } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
}
do_test func-8.4 {
  execsql {
    SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ')
    FROM t3;
  }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
ifcapable compound {
do_test func-8.5 {
  execsql {
    SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
      UNION ALL SELECT -9223372036854775807)
  }
} {0}
do_test func-8.6 {
  execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
      UNION ALL SELECT -9223372036854775807)
  }
} {integer}
do_test func-8.7 {
  execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
      UNION ALL SELECT -9223372036850000000)
  }
} {real}
ifcapable floatingpoint {
do_test func-8.8 {
  execsql {
    SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
      UNION ALL SELECT -9223372036850000000)
  }
} {1}
}
ifcapable !floatingpoint {
do_test func-8.8 {
# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
} {1}
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
} {integer}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
} {1}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
} {blob}
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)), length(randomblob(2000))
  }
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs
data generated by randomblob(). So this seems like a good place to test
# hex().
#
ifcapable bloblit {
do_test func-9.10 {
  execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF'))
} {00112233445566778899AABBCCDDEEFF}
} set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {

do_test func-9.11-utf16le {
  execsql {SELECT hex(replace('abcdefg','ef','12'))}
} {6100620063006400310032006700}
do_test func-9.12-utf16le {
  execsql {SELECT hex(replace('abcdefg','",12'))}
} {6100620063006400650066006700}
do_test func-9.13-utf16le {
  execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
} {610061006100610061006100650066006700}
} elseif {$encoding=="UTF-8"} {
  do_test func-9.11-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef','12'))}
} {61626364313267}
do_test func-9.12-utf8 {
    execsql {SELECT hex(replace('abcdefg','",12'))}
} {61626364656667}
do_test func-9.13-utf8 {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
} {6161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
# set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
  catchsql {
    SELECT testfunc(NULL,NULL);
  } {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
  execsql {
    SELECT testfunc('string', 'abcdefghiklmnopqrstuvwxyzABCDEFGHJKLMNPQRSTUVWXZ','
      'int', 1234
    );
  } {1234}
do_test func-10.3 {
  execsql {
    SELECT testfunc('string', 'abcdefghiklmnopqrstuvwxyzABCDEFGHJKLMNPQRSTUVWXZ','
      'string', NULL
    );
  }
ifcapable floatingpoint {
  do_test func-10.4 {
    execsql {
      SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                      'double', 1.234) ;
    }
  } {1.234}
  do_test func-10.5 {
    execsql {
      SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                      'int', 1234,
                      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                      'string', NULL,
                      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                      'double', 1.234,
                      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                      'int', 1234,
                      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                      'string', NULL,
                      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                      'double', 1.234) ;
    }
  } {1.234}
}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
  execsql {
    SELECT sqlite_version(*) ;
  }
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function testDestructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function testDestructor_count() returns the number of outstanding
# destructor calls for values returned by testDestructor().
#
if (db eval {PRAGMA encoding}=="UTF-8") {
    do_test func-12.1-utf8 {
        execsql {
            SELECT test_destructor('hello world'), test_destructor_count();
        } {{hello world} 1}
    } else {
        if capable {utf16} {
            do_test func-12.1-utf16 {
                execsql {
                    SELECT test_destructor16('hello world'), test_destructor_count();
                } {{hello world} 1}
            }
        }
        do_test func-12.2 {
            execsql {
                SELECT test_destructor_count();
            } {0}
        }
        do_test func-12.3 {
            execsql {
                SELECT test_destructor('hello') || ' world';
            } {{hello world} 1}
        }
        do_test func-12.4 {
            execsql {
                SELECT test_destructor_count();
            } {0}
        }
        do_test func-12.5 {
            execsql {
                CREATE TABLE t4(x);
                INSERT INTO t4 VALUES(test_destructor('hello'));
                SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
            } {hello world}
        }
        do_test func-12.6 {
            execsql {
                SELECT test_destructor_count();
            } {0}
        }
        do_test func-12.7 {
            execsql {
                DROP TABLE t4;
            }
        } {}
# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
  execsql {
    SELECT test_auxdata('hello world');
  }
} {0}
do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  }
} {}
do_test func-13.3 {
  execsql {
    SELECT test_auxdata('hello world') FROM t4;
  }
} {0 1}
do_test func-13.4 {
  execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
  }
} {{0 0} {1 1}}
do_test func-13.5 {
  execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
  }
} {{0 0} {1 0}}
do_test func-13.6 {
  execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
  }
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
  set DB [sqlite3_connection_pointer db]
  set sql "SELECT test_auxdata( ?, a ) FROM t4;"
  set STMT [sqlite3_prepare $DB $sql -1 TAIL]
  sqlite3_bind_text $STMT 1 hello\000 -1
  set res [list]
  while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
    lappend res [sqlite3_column_text $STMT 0]
lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
catch {
    db function [string repeat X 254] {return "hello"}
}
} {0}
do_test func-14.2 {
catch {
    db function [string repeat X 256] {return "hello"}
}
} {1}
do_test func-15.1 {
catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
catchsql {select test_error('this is the error message')}  
} {1 {this is the error message}}
do_test func-15.3 {
catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
    db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
    execsql {
        CREATE TABLE tbl2(a, b);
    }
    set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
sqlite3_bind_blob $::STMT 1 abc 3
sqlite3_step $::STMT
sqlite3_finalize $::STMT
execsql {
    SELECT quote(a), quote(b) FROM tbl2;
}
} {X'616263' NULL}

# Correctly handle function error messages that include %. Ticket #1354
#
do_test func-17.1 {
    proc testfunc1 args {error "Error %d with %s percents %p"}
    db function testfunc1 ::testfunc1
catchsql {
    SELECT testfunc1(1,2,3);
}
} {1 {Error %d with %s percent %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
    execsql {
        CREATE TABLE t5(x);
        INSERT INTO t5 VALUES(1);
        INSERT INTO t5 VALUES(-99);
        INSERT INTO t5 VALUES(10000);
        SELECT sum(x) FROM t5;
    }
} {9902}

ifcapable floatingpoint {
    do_test func-18.2 {
        execsql {
            INSERT INTO t5 VALUES(0.0);
            SELECT sum(x) FROM t5;
        }
    } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
    execsql {
        DELETE FROM t5;
        SELECT sum(x), total(x) FROM t5;
    }
} {} 0.0

do_test func-18.4 {
    execsql {
        INSERT INTO t5 VALUES(NULL);
        SELECT sum(x), total(x) FROM t5
    }
} {} 0.0

do_test func-18.5 {
    execsql {
        INSERT INTO t5 VALUES(NULL);
        SELECT sum(x), total(x) FROM t5
    }
} {} 0.0

do_test func-18.6 {
execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
}
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes an error. The non-standard TOTAL() function continues to give a helpful result.

#
do_test func-18.10 {
execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0

do_test func-18.11 {
execsql {
    SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2.0+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
}
} 0.0
}
ifcapable !floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
}
} 0.0
if {
    [working_64bit_int]
} {
    do_test func-18.14 {
        execsql {
            SELECT sum(-9223372036854775805);
        }
    } -9223372036854775805
}

ifcapable compound&&subquery {

do_test func-18.15 {
    catchsql {
        SELECT sum(x) FROM
            (SELECT 9223372036854775807 AS x UNION ALL
            SELECT 10 AS x);
    }
} {1 {integer overflow}}
if {
    [working_64bit_int]
} {
    do_test func-18.16 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT 9223372036854775807 AS x UNION ALL
                SELECT -10 AS x);
        }
    } {0 9223372036854775797}
}

do_test func-18.17 {
    catchsql {
        SELECT sum(x) FROM
            (SELECT -9223372036854775807 AS x UNION ALL
            SELECT 10 AS x);
    }
} {0 -9223372036854775797}
}

do_test func-18.18 {
    catchsql {
        SELECT sum(x) FROM
            (SELECT -9223372036854775807 AS x UNION ALL
            SELECT -10 AS x);
    }
} {1 {integer overflow}}
}

do_test func-18.19 {
    catchsql {
        SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
    }
} {0 -1}
}

do_test func-18.20 {
    catchsql {
        SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
    }
} {0 -1}
do_test func-18.21 {
  catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
  }
} {0 -1}
do_test func-18.22 {
  catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
  }
} {0 1}

#: if capable compound&&subquery

# Integer overflow on abs()
#
if {[working_64bit_int]} {
  do_test func-18.31 {
    catchsql {
      SELECT abs(-9223372036854775807);
    }
} {0 9223372036854775807}
}
do_test func-18.32 {
  catchsql {
    SELECT abs(-9223372036854775807-1);
  }
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
  execsql {
    SELECT match(a,b) FROM t1 WHERE 0;
  }
} {}
do_test func-19.2 {
  catchsql {
    SELECT 'abc' MATCH 'xyz';
  }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
  catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
  }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
catchsql {
    SELECT match(1,2,3);
}
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if {![catch {db eval {SELECT soundex('hello')}}]} {
    set i 0
    foreach {name sdx} {
        euler        E460
        EULER        E460
        Euler        E460
eellery       E460
gauss        G200
        ghosh        G200
        hilbert      H416
        Heilbronn    H416
        knuth        K530
        kant         K530
        Lloyd        L300
        LADD         L300
        Lukasiewicz L222
        Lissajous    L222
        A            A000
        12345        ?000
    } {
        incr i
        do_test func-20.$i {
            execsql {SELECT soundex($name)} $sdx
        }
    }
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
    catchsql {
        SELECT replace(1,2);
    }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
    catchsql {
        SELECT replace(1,2,3,4);
    }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
    execsql {
SELECT typeof(replace("This is the main test string", NULL, "ALT"));
} {null}
do_test func-21.4 {
execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
} {null}
do_test func-21.5 {
execsql {
    SELECT typeof(replace("This is the main test string", "main", NULL));
} {null}
do_test func-21.6 {
execsql {
    SELECT replace("This is the main test string", "main", "ALT");
} {{This is the ALT test string}}
do_test func-21.7 {
execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
} {{This is the larger-main test string}}
do_test func-21.8 {
execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
} {0123456789012345678901234567890123456789012345678901234567890123456789}
ifcapable tclvar {
do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str "$[string repeat A 29998]CC[string repeat A 35537]"
    set ::rep [string repeat B 65536]
    execsql {
        SELECT LENGTH(REPLACE($::str, 'C', $::rep));
    }
} [expr 29998 + 2*65536 + 35537]
} # Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
catchsql {SELECT ltrim(1,2,3)}
}
do_test func-22.14 {
  execsql {SELECT hex(trim(x'c280e1bfbff6869','x'6162e1bfbfc280'))}
} {F48FBF6869}
do_test func-22.15 {
  execsql {SELECT hex(trim(x'6869c280e1bfbff6869','x'6162e1bfbfc280f48fbbf'))}
} {6869}
do_test func-22.16 {
  execsql {SELECT hex(trim(x'ceb1ceb2ceb3','x'ceb1'))}
} {CEB2CEB3}
}

if {[db one {PRAGMA encoding}]=='UTF-8'} {
  do_test func-22.20 {
    execsql {SELECT typeof(trim(NULL));}
}}
# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
    do_test func-23.1 {
        sqlite3_create_aggregate db
        execsql {
            SELECT legacy_count() FROM t6;
        }
    } {3}
}

# The group_concat() function.
#
do_test func-24.1 {
    execsql {
        SELECT group_concat(t1) FROM tbl1
    }
} {this,program,is,free,software}
do_test func-24.2 {
    execsql {
        SELECT group_concat(t1,')') FROM tbl1
    }
} {{this program is free software}}
do_test func-24.3 {
    execsql {
        SELECT group_concat(t1)||rowid||')') FROM tbl1
    }
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
    execsql {
        SELECT group_concat(NULL,t1) FROM tbl1
    }
} {{}}
do_test func-24.5 {
    execsql {
        SELECT group_concat(t1,NULL) FROM tbl1
    }
} {{this program is free software}}
do_test func-24.6 {
    execsql {
        SELECT
```
SELECT 'BEGIN-||group_concat(t1) FROM tbl1
}
} {BEGIN-this,program,is,free,software}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<\[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1\]} {incr i} {  
append midargs '/$i'
append midres '/$i'
set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}"
set sql "SELECT md5sum(t1$midargs) FROM tbl1"
do_test func-24.7.$i {
 db eval $::sql
} $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
 execsql {
  SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
 }
} {.program.is,free,software}
do_test func-24.9 {
 execsql {
  SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
 }
} {,,,,software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
 execsql {
  SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
 }
} {program.is,free,software}
do_test func-24.11 {
 execsql {
```
SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
}
} {software}
do_test func-24.12 {
execsql {
SELECT group_concat(CASE t1 WHEN 'this' THEN ''
WHEN 'program' THEN null ELSE t1 END) FROM tbl1
}
} {,is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}
# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
abuse_create_function db
} {}
# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT

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nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}

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do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}

do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#

do_test func-28.1 {
db eval {
    CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
}
catchsql {
    INSERT INTO t28(x) VALUES(1);
}
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#

do_test func-29.1 {
db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
}
}
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null integer real 3 integer blob 1000000 integer text 5 integer}

do_test func-29.2 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}

do_test func-29.3 {
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
}

do_test func-29.4 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x>100} {set x many}
set x
} {many}
}
do_test func-29.5 {
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT sum(length(x)) FROM t29} ] {1000009}
do_test func-29.6 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1]
do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]
for {set i 1} {$i<0xd800} {incr i 13} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
if {$i==0xfeff} continue
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
finish_test

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

<html>
<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">Copyright Release for
Contributions To SQLite</h1>
</body>
</html>
SQLite is software that implements an embeddable SQL database engine. SQLite is available for free download from http://www.sqlite.org/. The principal author and maintainer of SQLite has disclaimed all copyright interest in his contributions to SQLite and thus released his contributions into the public domain. In order to keep the SQLite software unencumbered by copyright claims, the principal author asks others who may from time to time contribute changes and enhancements to likewise disclaim their own individual copyright interest.

Because the SQLite software found at http://www.sqlite.org/ is in the public domain, anyone is free to download the SQLite software from that website, make changes to the software, use, distribute, or sell the modified software, under either the original name or under some new name, without any need to obtain permission, pay royalties, acknowledge the original source of the software, or in any other way compensate, identify, or notify the original authors. Nobody is in any way compelled to contribute their SQLite changes and enhancements back to the SQLite website. This document concerns only changes and enhancements to SQLite that are intentionally and deliberately contributed back to the SQLite website.

For the purposes of this document, "SQLite software" shall mean any computer source code, documentation, makefiles, test scripts, or other information that is published on the SQLite website, http://www.sqlite.org/. Precompiled binaries are excluded from the definition of "SQLite software" in this document because the process of compiling the software may introduce information from outside sources which is not properly a part of SQLite.

The header comments on the SQLite source files exhort the reader to share freely and to never take more than one gives. In the spirit of that exhortation I make the following declarations:

I dedicate to the public domain any and all copyright interest in the SQLite software that was publicly available on the SQLite website (http://www.sqlite.org/) prior to the date of the signature below and any changes or enhancements to
the SQLite software
that I may cause to be published on that website in the future.
I make this dedication for the benefit of the public at large and
to the detriment of my heirs and successors. I intend this
dedication to be an overt act of relinquishment in perpetuity of
all present and future rights to the SQLite software under copyright
law.
</p></li>

<li><p>
To the best of my knowledge and belief, the changes and enhancements that
I have contributed to SQLite are either originally written by me
or are derived from prior works which I have verified are also
in the public domain and are not subject to claims of copyright
by other parties.
</p></li>

<li><p>
To the best of my knowledge and belief, no individual, business, organization,
government, or other entity has any copyright interest
in the SQLite software as it existed on the
SQLite website as of the date on the signature line below.
</p></li>

<li><p>
I agree never to publish any additional information
to the SQLite website (by CVS, email, scp, FTP, or any other means) unless
that information is an original work of authorship by me or is derived from
prior published versions of SQLite.
I agree never to copy and paste code into the SQLite code base from
other sources.
I agree never to publish on the SQLite website any information that
would violate a law or breach a contract.
</p></li>

<p>
<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
Signature:
</td>
<td valign="top" align="left">
Date:
</td>
</tr>
</table>
</p>
SQLite Consortium Agreement

This SQLite Consortium Agreement ("Agreement") is made and entered into as of the ____ day of ______________, 2007 ("Effective Date") by and between _______________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/ ("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith,
Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

2.1.1 General Support

The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

2.1.2 Debugging Support
The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

2.1.3 Custom Development
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

2.1.4 Custom Builds
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

2.1.5 Legacy Support
The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

2.1.6 Custom Testing
The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

2.1.7 Priority Bug Fixes
The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

2.1.8 Code Quality
The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.
2.1.9 Backwards Compatibility

The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

2.1.10 Test Coverage

The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

2.1.11 Website

The SQLite Developers shall maintain the SQLite website at "http://www.sqlite.org/" in good working order and all SQLite source code shall be made freely available at such website.

2.2 Responsibilities And Obligations Of The SQLite Architect

2.2.1 Private Briefings

The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

2.2.2 Direction

The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

2.2.3 Oversight

The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

2.2.4 Continuity

The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.
<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each
other and from the primary on-line SQLite repository
by at least 400 kilometers.
</p>

<h4>2.3.7 Trademark</h4>
<p>Hwaci shall maintain ownership of the SQLite trademark and
the sqlite.org domain name and shall purchase bandwidth and
</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>
<p>Neither Hwaci nor the SQLite Architect shall relinquish development
control of SQLite during the term of this Agreement, by acquisition or merger
or by any other means, except with the consent of Company.
</p>

<h4>2.3.9 New Consortium Members</h4>
<p>New Consortium Members may be accepted into the consortium from
time to time under identical terms as this agreement, or under
substantially similar terms that have been approved by existing
Consortium Members.</p>

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified
SQLite Developers to easily cover all custom development,
debugging, and general support service obligations for all
Consortium Members while still providing ample time for
the SQLite Developers to engage in general maintenance
and extension of SQLite.

<h4>2.3.11 Use Of Funds</h4>
Hwaci shall use the funds provided hereunder
solely for the development and maintenance of SQLite as set forth in
this Agreement.
Interest on funds received in advance and held in trust will
be reinvested and used for the same purposes as the principal.

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
<p>Company shall provide funding for the ongoing support and
maintenance of SQLite as set forth in section 3.0 "Fees".
</p>
<h4>2.4.2 Copyright Disclaimer</h4>
<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.</p>

<h2>3.0 Fees</h2>
<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

<h2>4.0 Confidentiality</h2>
<h3>4.1 Definition of Confidential Information</h3>
<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

<h3>4.2 Non-Use and Non-Disclosure.</h3>
<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.</p>
4.2.1 Disclosure Required by Law
In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

4.3 Return of Materials.

Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

5.0 Intellectual Property

5.1 No Assignment

Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.

5.2 Availability and Public Domain Dedication

The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files.
and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>
<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of
this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications,
representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

<h3>8.6 Counterparts.</h3>

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

<h3>8.7 Governing Law.</h3>

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

<h3>8.8 Independent Contractors.</h3>

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to indicate their acceptance of its terms.

<table>
<thead>
<tr>
<th>HWACI</th>
<th>COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>By:</td>
<td></td>
</tr>
<tr>
<td>Print Name:</td>
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<td>Title:</td>
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</tbody>
</table>
1.72 istack-commons 3.0.11

1.72.1 Available under license:

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or
C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and
(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.
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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RE.java
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1.81 cpio 2.11 27.el7

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

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

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

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

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

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

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

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

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    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
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Version 2, June 1991

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END OF TERMS AND CONDITIONS

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
  * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
  * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
  * http://www.hypermall.com/
  * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  * 10/4/97 - began heavy inline documentation of the code. Corrected typos
  * 10/5/97 - added code to handle PHY interrupts, disable PHY on
  * 10/6/97 - loss of link, and correctly re-enable PHY when link is
  * 10/6/97 - modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
  * 10/6/97 - Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb’s passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
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*
* M. Welsh, 6 July 1996
*
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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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0. Definitions.

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

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

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@heading TERMS AND CONDITIONS

@enumerate 0
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Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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1.104 python-dateutil 1.5

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

1.111 p11-kit 0.23.5-3.el7

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1.113 c-ares 1.12.0

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1.114 libndp 1.2-9.el7

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1.115 slf4j-log4j 1.7.7

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1.116 libproxy 0.4.11 11.el7

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1.118 axis2-mtompolicy 1.7.9

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# org.xnio.nio.NioXnioProvider

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* /opt/cola/permits/1109699746_1606393198.1/0/xnio-nio-3-8-0-final-sources-jar/org/xnio/nio/NioSocketConduit.java
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1.145 libxi 1.7.9-1.el7

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1.147 addressing 1.5.2

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1.148 forgerock-guice-core 1.1.0

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* /opt/ws_local/PERMITS_SQL/1068907044_1594469922.74/0/netty-transport-native-unix-common-4-1-33-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
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* /opt/ws_local/PERMITS_SQL/1068907044_1594469922.74/0/netty-transport-native-unix-common-4-1-33-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
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* /opt/ws_local/PERMITS_SQL/1068907044_1594469922.74/0/netty-transport-native-unix-common-4-1-33-final-sources-jar/io/netty/channel/unix/InetSocketAddress.java

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* /opt/ws_local/PERMITS_SQL/1068907044_1594469922.74/0/netty-transport-native-unix-common-4-1-33-final-sources-jar/io/netty/channel/unix/package-info.java
* /opt/ws_local/PERMITS_SQL/1068907044_1594469922.74/0/netty-transport-native-unix-common-4-1-33-final-sources-jar/io/netty/channel/unix/IovArray.java

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/**
 * [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer] reference through WebSphere's proprietary [@code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the [@code MBeanServer] for bean references.
 *
 * <p>This [@code FactoryBean] is a direct alternative to [@link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's [@code MBeanServer].
 *
 * <p>See the javadocs for WebSphere's
 * and
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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  /jar/org/springframework/context/PayloadApplicationEvent.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
  /jar/org/springframework/context/annotation/ImportResource.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
  /jar/org/springframework/context/annotation/CacheConfig.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
  /jar/org/springframework/scripting/config/LangNamespaceHandler.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
  /jar/org/springframework/jmx/export/annotation/ManagedResource.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
  /jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/ConfigurableApplicationContext.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/scheduling/concurrent/ThreadPoolTaskExecutor.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/cache/interceptor/SimpleKey.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/validation/beanvalidation/MethodValidationPostProcessor.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/annotation/ConfigurationClassParser.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/jmx/access/InvalidInvocationException.java

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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/scheduling/SchedulingException.java
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jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-
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jar/org/springframework/remoting/support/RemoteInvocationFactory.java
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jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/event/EventPublicationInterceptor.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/format/datetime/joda/JodaTimeFormatterRegistrar.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/jmx/support/MetricType.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/support/DelegatingMessageSource.java
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jar/org/springframework/scheduling/config/ScheduledTask.java
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 * { @linkplain #value specified conditions } match.
 *
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see { @link Condition } for details).
 *
 * <p>The { @code @Conditional } annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * { @code @Component }, including { @link Configuration @Configuration } classes
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations
 * <li>as a method-level annotation on any { @link Bean @Bean } method
 */
If a `@Configuration` class is marked with `@Conditional`, all of the `@Bean` methods, `@Import` annotations, and `@ComponentScan` annotations associated with that class will be subject to the conditions.

**NOTE:** Inheritance of `@Conditional` annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, `@Conditional` itself is not declared as `@Inherited`; furthermore, any custom `<em>composed annotation</em>` that is meta-annotated with `@Conditional` must not be declared as `@Inherited`.

@since 4.0

@see Condition

Found in path(s):

* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/annotation/Conditional.java

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 */

/**
 * Abstract the invocation of a cache operation.
 *
 * Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/format/datetime/joda/DateTimeParser.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/annotation/Lazy.java
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 */

Found in path(s):
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/ApplicationListener.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/support/StaticMessageSource.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/ui/ModelMap.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/annotation/Async.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/support/TaskUtils.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 2382
1.154 vim 7.4.629-6.el7

1.154.1 Available under license:

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

VIM REFERENCE MANUAL by Bram Moolenaar

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

SUMMARY

*iccf* *ICCF*

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

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

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

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      d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
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         - You keep the changes for at least three years after last
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- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.
  
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  4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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

=== end of license ===

Note:

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

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

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

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

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

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

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

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

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

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

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

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

Others: Transfer to one of these accounts if possible:

- Postbank, account 4548774
  Swift code: INGB NL 2A
  IBAN: NL95 INGB 0004 5487 74
  under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
    Rabobank Lisse, account 3765.05.117
  Swift code: RABO NL 2U
  under the name "Bram Moolenaar", Lisse

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

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

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

vim:tw=78:ts=8:ft=help:norl:
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1.155 libcap 2.19

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1.156 bridgeutils 1.5 9.el7

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

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

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

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

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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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If distribution of object code is made by offering access to copy
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linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Library will still fall under Section 6.)

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

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

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

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

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

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END OF TERMS AND CONDITIONS

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

* javax.servlet:javax.servlet-api  
* javax.annotation:javax.annotation-api  
* javax.transaction:javax.transaction-api  
* javax.websocket:javax.websocket-api

------

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 2586
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.181 tomcat-storeconfig 9.0.37
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1.182 python-setuptools 0.9.8

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1.183 cxf-rt-transports-http-hc 3.4.0

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* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
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  jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
  jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
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  jar/io/netty/resolver/dns/DnsServerAddressStream.java
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  jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
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  jar/io/netty/resolver/dns/DnsQueryContextManager.java
* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
  jar/io/netty/resolver/dns/DnsNameResolverException.java
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  jar/io/netty/resolver/dns/InflightNameResolver.java
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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1.195 commons-logging-api 1.1

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1.196 kxml 2

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1.200 at-spi2-core 2.28.0 1.el7

1.201 bash 4.2.46 34.el7
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 */

package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version
{

}
* Version String formatted like
* <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd] <B>D</B><B>n</B>"</CODE>.
*
* Futurework: have this read version info from jar manifest.
*
* @return String denoting our current version
*/

public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "+getMajorVersionNum()+"."+getReleaseVersionNum()+"."
    +( (getDevelopmentVersionNum() > 0) ?
        ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
 * When missing, it designates the final and complete development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.
 * Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
* 
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_161342294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
No license file was found, but licenses were detected in source scan.

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 2749

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/StopParseException.java
No license file was found, but licenses were detected in source scan.

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jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
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 */

$/Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion()
{
return getProduct()+"+getImplementationLanguage()+""+
+getMajorVersionNum()+"+"+getReleaseVersionNum()+"+"+
+(getDevelopmentVersionNum() > 0) ?
("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
return "Serializer";
}
public static String getImplementationLanguage()
{
    return "Java";
}

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * complete, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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* limitations under the License.
*/
/**
* Major version number.
* Version number. This changes only when there is a
* significant, externally apparent enhancement from
* the previous release. 'n' represents the n'th
* version.
*
* Clients should carefully consider the implications
* of new versions as external interfaces and behaviour
* may have changed.
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
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*/

// Attribution to: "Voytenko, Dmitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/ToHTMLStream.java
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 */

// Proprietary
/** The 'document-location()' id (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/FunctionTable.java
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/Entities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_html.properties

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 * limitations under the License.
 */

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;
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```
parser code {:
    /**
     * Used by function calls with no args.
     */
    static public final Vector EmptyArgs = new Vector(0);

    /**
     * Reference to non-existing variable.
     */
    static public final VariableRef DummyVarRef = null;

    /**
     * Reference to the Parser class.
     */
    private Parser _parser;
    private XSLTC _xslt;

    /**
     * String representation of the expression being parsed.
     */
    private String _expression;

    /**
     * Line number where this expression/pattern was declared.
     */
    private int _lineNumber = 0;

    /**
     * Reference to the symbol table.
     */
    public SymbolTable _symbolTable;

    public XPathParser(Parser parser) {
        _parser = parser;
        _xslt = parser.getXSLTC();
        _symbolTable = parser.getSymbolTable();
    }

    public int getLineNumber() {
        return _lineNumber;
    }

    public QName getQNameIgnoreDefaultNs(String name) {
        return _parser.getQNameIgnoreDefaultNs(name);
    }

    public QName getQName(String namespace, String prefix, String localname) {
        return _parser.getQName(namespace, prefix, localname);
    }

```
public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
 public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;
    if (test == null) {  // "*
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
    }
    else {
        QName name = (QName)test;
        boolean setPriority = false;
        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*")) ? -1
                : _xsltc.registerNamespacePrefix(name);
        }
        else {
            return new StepPattern(axis, nodeType, predicates);
        }
    }
    return new StepPattern(axis, nodeType, predicates);
}
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("*")) [local.equals("@*")) {
    if (predicates == null) {
        predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
        new Predicate(
            new EqualityExpr(Operators.EQ,
            new NamespaceUriCall(namespace_uri),
            new LiteralExpr(uri))));
}

if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
}
else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) :
            _xsltc.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
}
NodeTest.ATTRIBUTE  :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
 }
 else if (test instanceof Integer) {
   return ((Integer)test).intValue();
 }
 else {
   QName name = (QName)test;

   if (axis == Axis.NAMESPACE) {
     return (name.toString().equals("**")) ? -1
       : _xsltc.registerNamespacePrefix(name);
   }
   if (name.getNamespace() == null) {
     final String local = name.getLocalPart();

     if (local.equals("*")) {
       return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
         : NodeTest.ELEMENT;
     }
     else if (local.equals("@*")) {
       return NodeTest.ATTRIBUTE;
     }
   }

   return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
     : _xsltc.registerElement(name);
 }

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external   Set to <tt>true</tt> if this expression is
 *                   compiled in a separate module.
 * @param
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
  try {
    _expression = expression;
    _lineNumber = lineNumber;
    return super.parse();
  }
}
catch (IllegalCharException e) {
   ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
        lineNumber, e.getMessage());
    _parser.reportError(Constants.FATAL, err);
}
return null;
}

/**
* Lookup a variable or parameter in the symbol table given its name.
*
* @param name Name of the symbol being looked up.
*/
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
        _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
        return rlp;
    }
}
/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PL, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
          [: RESULT = pattern: :]
          | EXPRESSION Expr:expr
            [: RESULT = expr: :];
/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
          [: RESULT = lpp: :]
          | LocationPathPattern:lpp VBAR Pattern:p
            [: RESULT = new AlternativePattern(lpp, p); :];

LocationPathPattern ::= SLASH
          [: RESULT = new AbsolutePathPattern(null); :]
          | SLASH RelativePathPattern:rpp
            [: RESULT = new AbsolutePathPattern(rpp); :]
          | IdKeyPattern:ikp
            [: RESULT = ikp: :]
          | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
            [: RESULT = new ParentPattern(ikp, rpp); :]
IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{: RESULT = new IdPattern(l);
 parser.setHasIdCall(true);
 :}

KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :}

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :}

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT = new ParentPattern(sp, rpp); :}

StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :}

StepPattern ::= NodeTestPattern:nt
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
 :}

NodeTestPattern:nt Predicates:pp
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
 :}

ProcessingInstructionPattern::pip
{: RESULT = pip; :}

ProcessingInstructionPattern::pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern::pip.setPredicates(pp); :}

ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
{: RESULT = parser.createStepPattern(axis.intValue(), nt, null);
| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp |
|--------------------------|------------------|------------------|
| :                        | RESULT = parser.createStepPattern(axis.intValue(), nt, pp); |
|                          | :                |
| | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip |
| :                        | RESULT = pip; // TODO: report error if axis is attribute |
| :                        | :                |
| NodeTestPattern ::= NameTestPattern:nt |
| :                        | RESULT = nt; : |
| | NODE |
| :                        | RESULT = new Integer(NodeTest.ANODE); : |
| | TEXT |
| :                        | RESULT = new Integer(NodeTest.TEXT); : |
| | COMMENT |
| :                        | RESULT = new Integer(NodeTest.COMMENT); : |
| | PI |
| :                        | RESULT = new Integer(NodeTest.PI); : |

NameTestPattern ::= STAR |
| : RESULT = null; : |
| QName:qn |
| : RESULT = qn; : |

ChildOrAttributeAxisSpecifier ::= ATSIGN |
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

| CHILD DCOLON |
| : RESULT = new Integer(Axis.CHILD); : |

| ATTRIBUTE DCOLON |
Predicates ::= Predicate:p

Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
:

| Predicate:p Predicates:pp
| pp.insertElementAt(p, 0); RESULT = pp; :;

Predicate ::= LBRACK Expr:e RBRACK

RESULT = new Predicate(e);
:

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
{
: RESULT = ex; :

OrExpr ::= AndExpr:ae
{
: RESULT = ae; :

| OrExpr:oe OR AndExpr:ae
| RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :

AndExpr ::= EqualityExpr:e
{
: RESULT = e; :

| AndExpr:ae AND EqualityExpr:ee
| RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :

EqualityExpr ::= RelationalExpr:re
{
: RESULT = re; :

| EqualityExpr:ee EQ RelationalExpr:re
| RESULT = new EqualityExpr(Operators.EQ, ee, re); :

| EqualityExpr:ee NE RelationalExpr:re
| RESULT = new EqualityExpr(Operators.NE, ee, re); :

RelationalExpr ::= AdditiveExpr:ae
{
: RESULT = ae; :

| RelationalExpr:re LT AdditiveExpr:ae
| RESULT = new RelationalExpr(Operators.LT, re, ae); :}
| RelationalExpr:re GT AdditiveExpr:ae
| : RESULT = new RelationalExpr(Operators.GT, re, ae); |

| RelationalExpr:re LE AdditiveExpr:ae
| : RESULT = new RelationalExpr(Operators.LE, re, ae); |

| RelationalExpr:re GE AdditiveExpr:ae
| : RESULT = new RelationalExpr(Operators.GE, re, ae); |

AdditiveExpr ::= MultiplicativeExpr:me
| : RESULT = me; |

| AdditiveExpr:ae PLUS MultiplicativeExpr:me
| : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); |

| AdditiveExpr:ae MINUS MultiplicativeExpr:me
| : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); |

MultiplicativeExpr ::= UnaryExpr:ue
| : RESULT = ue; |

| MultiplicativeExpr:me MULT UnaryExpr:ue
| : RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); |

| MultiplicativeExpr:me DIV UnaryExpr:ue
| : RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); |

| MultiplicativeExpr:me MOD UnaryExpr:ue
| : RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); |

UnaryExpr ::= UnionExpr:ue
| : RESULT = ue; |

| MINUS UnaryExpr:ue
| : RESULT = new UnaryOpExpr(ue); |

UnionExpr ::= PathExpr:pe
| : RESULT = pe; |

| PathExpr:pe VBAR UnionExpr:rest
| : RESULT = new UnionPathExpr(pe, rest); |

PathExpr ::= LocationPath:lp
| : RESULT = lp; |

| FilterExpr:fexp
| : RESULT = fexp; |
FilterExpr: fexp SLASH RelativeLocationPath: rlp
{
    : RESULT = new FilterParentPath(fexp, rlp); :
}

FilterExpr: fexp DSLASH RelativeLocationPath: rlp
{
    :
    // Expand '//' into '/descendant-or-self::node()' or
    // into /descendant-or-self::*
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
    {
        nodeType = DTM.ELEMENT_NODE;
    }

    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    FilterParentPath fpp = new FilterParentPath(fexp, step);
    fpp = new FilterParentPath(fpp, rlp);
    if (fexp instanceof KeyCall == false) {
        fpp.setDescendantAxis();
    }
    RESULT = fpp;
};

LocationPath ::= RelativeLocationPath: rlp
{
    : RESULT = rlp; :
}

AbsoluteLocationPath: alp
{
    : RESULT = alp; :
}

RelativeLocationPath ::= Step: step
{
    : RESULT = step; :
}

RelativeLocationPath: rlp SLASH Step: step
{: 
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
        RESULT = step;       // Remove "." from the middle
    }
    else if (((Step) step).isAbbreviatedDot()) {
        RESULT = rlp;        // Remove "." from the end
    }
    else {
        RESULT =
            new ParentLocationPath((RelativeLocationPath) rlp, step);
    }
};
| AbbreviatedRelativeLocationPath:arlp |
| : RESULT = arlp: |

AbsoluteLocationPath ::= SLASH
| : RESULT = new AbsoluteLocationPath(): |

| SLASH RelativeLocationPath:rlp |
| : RESULT = new AbsoluteLocationPath(rlp): |

| AbbreviatedAbsoluteLocationPath:aalp |
| : RESULT = aalp: |

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
| : |
| final Step right = (Step)step; |
| final int axis = right.getAxis(); |
| final int type = right.getNodeType(); |
| final Vector predicates = right.getPredicates(); |

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) { |
// Compress './child:E' into 'descendant::E' - if possible |
if (predicates == null) { |
    right.setAxis(Axis.DESCENDANT); |
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) { |
        RESULT = right; |
    } |
    else { |
        // Expand 'rlp//child::E' into 'rlp/descendant::E' |
        RelativeLocationPath left = (RelativeLocationPath)rlp; |
        RESULT = new ParentLocationPath(left, right); |
    } |
} |
else { |
    // Expand './step' -> 'descendant-or-self::*/*' |
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) { |
        Step left = new Step(Axis.DESCENDANTORSELF, |
        DTM.ELEMENT_NODE, null); |
        RESULT = new ParentLocationPath(left, right); |
    } |
    else { |
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/*' |
        RelativeLocationPath left = (RelativeLocationPath)rlp; |
        Step mid = new Step(Axis.DESCENDANTORSELF, |
        DTM.ELEMENT_NODE, null); |
        ParentLocationPath ppl = new ParentLocationPath(mid, right); |
        RESULT = new ParentLocationPath(left, ppl); |
    } |
} |
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
};

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
 { :
    //
    // Expand '// into '/descendant-or-self::node()/' or
    // into /descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
    {
       nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step,
       (RelativeLocationPath) rlp));
    :
};

Step ::= NodeTest:ntest
 { :
    if (ntest instanceof Step) {
       RESULT = (Step)ntest;
    }
    else {
       RESULT = new Step(Axis.CHILD,
           parser.findNodeType(Axis.CHILD, ntest),
           null);
    }
    :
}
<table>
<thead>
<tr>
<th>NodeTest:ntest Predicates:pp</th>
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<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>if (ntest instanceof Step) {</td>
</tr>
<tr>
<td>Step step = (Step)ntest;</td>
</tr>
<tr>
<td>step.addPredicates(pp);</td>
</tr>
<tr>
<td>RESULT = (Step)ntest;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else {</td>
</tr>
<tr>
<td>RESULT = new Step(Axis.CHILD,</td>
</tr>
<tr>
<td>parser.findNodeType(Axis.CHILD, ntest), pp);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>:</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>AxisSpecifier:axis NodeTest:ntest Predicates:pp</th>
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</thead>
<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest), pp);</td>
</tr>
<tr>
<td>}</td>
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</tbody>
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<tr>
<th>AxisSpecifier:axis NodeTest:ntest</th>
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<tbody>
<tr>
<td>{</td>
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<tr>
<td>RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest),</td>
</tr>
<tr>
<td>null);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AbbreviatedStep:abbrev</th>
</tr>
</thead>
<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>RESULT = abbrev;</td>
</tr>
<tr>
<td>: }</td>
</tr>
</tbody>
</table>

AxisSpecifier ::= AxisName:an DCOLON
{ |
| RESULT = an; |
| : } |

<table>
<thead>
<tr>
<th>ATSIGN</th>
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<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>RESULT = new Integer(Axis.ATTRIBUTE);</td>
</tr>
<tr>
<td>: }</td>
</tr>
</tbody>
</table>

AxisName ::= ANCESTOR
{ |
| RESULT = new Integer(Axis.ANCESTOR); |
| : } |

| ANCESTORORSELF |
|-----------------
| { |
| RESULT = new Integer(Axis.ANCESTORORSELF); |
| : } |

<table>
<thead>
<tr>
<th>ATTRIBUTE</th>
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<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>RESULT = new Integer(Axis.ATTRIBUTE);</td>
</tr>
<tr>
<td>: }</td>
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<thead>
<tr>
<th>CHILD</th>
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<tbody>
<tr>
<td>{</td>
</tr>
<tr>
<td>RESULT = new Integer(Axis.CHILD);</td>
</tr>
<tr>
<td>: }</td>
</tr>
</tbody>
</table>

| DESCENDANT |
{ : RESULT = new Integer(Axis.DESCENDANT); : }

| DESCENDANTORSELF
| { : RESULT = new Integer(Axis.DESCENDANTORSELF); : }

| FOLLOWING
| { : RESULT = new Integer(Axis.FOLLOWING); : }

| FOLLOWINGSIBLING
| { : RESULT = new Integer(Axis.FOLLOWINGSIBLING); : }

| NAMESPACE
| { : RESULT = new Integer(Axis.NAMESPACE); : }

| PARENT
| { : RESULT = new Integer(Axis.PARENT); : }

| PRECEDING
| { : RESULT = new Integer(Axis.PRECEDING); : }

| PRECEDINGSIBLING
| { : RESULT = new Integer(Axis.PRECEDINGSIBLING); : }

| SELF
| { : RESULT = new Integer(Axis.SELF); : }

AbbreviatedStep ::= DOT
| { : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : }

| DDOT
| { : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : }

FilterExpr ::= PrimaryExpr:primary
| { : RESULT = primary; : }

| PrimaryExpr:primary Predicates:pp
| { : RESULT = new FilterExpr(primary, pp); : }

PrimaryExpr ::= VariableReference:vr
| { : RESULT = vr; : }

| LPAREN Expr:ex RPAREN
| { : RESULT = ex; : }

| Literal:string
| { : /*
* If the string appears to have the syntax of a QName, store
namespace info in the literal expression. This is used for
element-available and function-available functions, among
others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);

| INT:num
|
| REAL:num
| FunctionCall:fc
| VariableReference ::= DOLLAR VariableName:varName

| : RESULT = new RealExpr(value);
| if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
|     RESULT = new RealExpr(value);
| } else {
|     if (num.doubleValue() == -0)
|         RESULT = new RealExpr(num.doubleValue());
|     else if (num.intValue() == 0)
|         RESULT = new IntExpr(num.intValue());
|     else if (num.doubleValue() == 0.0)
|         RESULT = new RealExpr(num.doubleValue());
|     else
|         RESULT = new IntExpr(num.intValue());
| }
| ;
| RESULT = new RealExpr(num.doubleValue());
| RESULT = fc; :;

// An empty qname prefix for a variable or parameter reference
// should map to the null namespace and not the default URI.
SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    }
}
else if (node instanceof Param) {
    RESULT = new ParameterRef((Param)node);
}
else {
    RESULT = new UnresolvedRef(varName);
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
};
RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
{:
    if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
        parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
        RESULT = new BooleanCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
        RESULT = new NotCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
        RESULT = new FormatNumberCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
        RESULT = new UnparsedEntityUriCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}

else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}

else if (parser.getQName(TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}

// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") ||
    fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
} else {
    RESULT = new FunctionCall(fname, argl);
NonemptyArgumentList ::= Argument:arg
    {
        Vector temp = new Vector();
        temp.addElement(arg);
        RESULT = temp;
    }

    | Argument:arg COMMA NonemptyArgumentList:argl
      {
        argl.insertElementAt(arg, 0);
        RESULT = argl;
      }

FunctionName ::= QName:fname
    {
        RESULT = fname;
    }

VariableName ::= QName:vname
    {
        RESULT = vname;
    }

Argument ::= Expr:ex
    {
        RESULT = ex;
    }

NodeTest ::= NameTest:nt
    {
        RESULT = nt;
    }

    | NODE
      {
        RESULT = new Integer(NodeTest.ANODE);
      }

    | TEXT
      {
        RESULT = new Integer(NodeTest.TEXT);
      }

    | COMMENT
      {
        RESULT = new Integer(NodeTest.COMMENT);
      }

    | PIPARAM LPAREN Literal:l RPAREN
      {
        QName name = parser.getQNameIgnoreDefaultNs("name");
        Expression exp = new EqualityExpr(Operators.EQ,
            new NameCall(name),
            new LiteralExpr(l));
        Vector predicates = new Vector();
        predicates.addElement(new Predicate(exp));
        RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
      }
| PI
| ![Image](image)

NameTest ::= STAR
| ![Image](image)

QName ::= QName:qn
| ![Image](image)

QName := QName:qname
| ![Image](image)

| DIV
| ![Image](image)

| MOD
| ![Image](image)

| KEY
| ![Image](image)

| ANCESTOR
| ![Image](image)

| ANCESTORORSELF
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| ATTRIBUTE
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| CHILD
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| DESCENDANT
| ![Image](image)

| DESCENDANTORSELF
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| FOLLOWING
| ![Image](image)

| FOLLOWINGSIBLING
| ![Image](image)

| NAMESPACE
| ![Image](image)
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 */
// is found, then throw a special exception in order to terminate

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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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*/

/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions(FuncDoclocation.java
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limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%
%cups
%cunicode
%cclasspath XPathLexer
%yyeof
%
{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
    }

    /**
    * If symbol is not followed by `::` or `(`, then treat it as a
    * name instead of an axis or function (Jira-1912).
    */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;
        // ...
// Skip whitespace
while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
    index++;
}

// If end of buffer, can't disambiguate :
if (index >= yy_buffer_read) {
    // Can't disambiguate, so return as symbol
    return new Symbol(ss);
}

// Return symbol if next token is '::' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ||
       yy_buffer[index] == '(' ?
       newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
        default:
    }
}
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:  // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}
Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}
Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 2784
"$"  { return newSymbol(sym.DOLLAR); }
"/"   { return newSymbol(sym.DSLSH); }
"="  { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<"  { return newSymbol(sym.LT); }
">"  { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id"  { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+[\t\n\r\f\r]+"()"  { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+[\t\n\r\f\r]+"()"  { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[\t\n\r\f\r]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction()" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction"+[\t\n\r\f\r]+"()"  { return newSymbol(sym.PI); }
"or"  { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"follow" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"  { return disambiguateAxisOrFunction(sym.SELF); }
"["  { return newSymbol(sym.LBRACK); }
"]"  { return newSymbol(sym.RBRACK); }
"("  { return newSymbol(sym.LPAREN); }
")"  { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return newSymbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return newSymbol(sym.EXPRESSION); }
"\"[^\\"]*\\\"  { return newSymbol(sym.LITERAL,
                       yytext().substring(1, yytext().length() - 1)); }
\"[^\\"]*\"  { return newSymbol(sym.LITERAL,
                       yytext().substring(1, yytext().length() - 1)); }
{Digit}+  { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+\."{Digit}+\"  { return newSymbol(sym.REAL, new Double(yytext())); }
\."{Digit}+  { return newSymbol(sym.REAL, new Double(yytext())); }
\."  { return newSymbol(sym.DOT); }
/*
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 */

package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */

public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */

public static void main(String argv[]) {
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;
/**
* Development Drop Number.
* Optional identifier designates development drop of
*
a specific release. D01 is the first development drop
*
of a new release.
*
*
Development drops are works in progress towards a
*
compeleted, final release. A specific development drop
*
may not completely implement all aspects of a new
*
feature, which may take several development drops to
*
complete. At the point of the final drop for the
*
release, the D suffix will be omitted.
*
*
Each 'D' drops can contain functional enhancements as
*
well as defect fixes. 'D' drops may not be as stable as
*
the final releases.
*/
public static final int DEVELOPMENT = 0;
/**
* Version String like <CODE>"<B>Xalan</B> <B>Language</B>
* v.r[.dd| <B>D</B>nn]"</CODE>.
* <P>Semantics of the version string are identical to the Xerces project.</P>
*/
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
: (""+MAINTENANCE));
}
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sourcesjar/org/apache/xalan/processor/XSLProcessorVersion.src
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

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  jar/org/apache/xpath/compiler/Keywords.java
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*/

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/xml/docs/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/compiler/AttributeValue.java

* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSortKey.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_ko.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundleBase.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Key.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_cy.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ContainsCall.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/xsltc/runtime/BasisLibrary.java
* /opt/cola/permits/1134796662_1613422294.09/xalan-2-7-2-sources-jar/org/apache/xml/xsltc/runtime/Parameter.java
jar/org/apache/xml/utils/res/XResources_zh_TW.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AlternativePattern.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Neg.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/NodeSet.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNull.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMErrorHandlerImpl.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/PositionCall.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Template.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xsltc/compiler/ElementSource.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/GetOptException.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ElemIf.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ElemApplyImport.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ElementSource.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/PositionCall.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Template.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xsltc/compiler/ElementSource.java
* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/PositionCall.java
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* /opt/cola/permits/113479662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_sk.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/ErrorMessages_hu.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/serialize/Serializer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LocationPathPattern.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSortRecordGenerator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/FlowList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XSLTVisibleable.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Arg.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMDefaultBase.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/ExtensionEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/UnionPathIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemUnknown.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XRTreeFragSelectWrapper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ReferenceType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/Redirect.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLReaderManager.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathExpressionImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_sl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/MsgMgr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/XslElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Refs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/serializer/AttributesImplSerializer.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/StylesheetComposed.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/util/ErrorMessagees_it.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/ElementAvailableCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/VarNameCollector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/ElementAvailableCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/dom/DOMBuilder.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/Util.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/AttributeSetMethodGenerator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/compiler/Type.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xslt/dom/DOMBuilder.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/ProcessorCharacters.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/processor/ProcessorDecimalFormat.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJava.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorStripSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/RealExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorTemplateElem.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/KeyCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Output.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Closure.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemLiteralResult.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSorter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformState.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/UnaryOperation.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage.cs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CollatorFactoryBase.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SourceLoader.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LastCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/Translet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/TrAXFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTSchema.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFilter.java
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1.210 openssl 1.1.1d

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jar/org/springframework/web/context/ConfigurableWebEnvironment.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/http/MediaTypeEditor.java

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/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/util/pattern/PatternParseException.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/converter/json/GsonFactoryBean.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/HttpComponentsStreamingClientHttpRequest.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/HttpComponentsAsyncClientHttpRequest.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/BufferingClientHttpResponseWrapper.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/HttpComponentsAsyncClientHttpResponse.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/context/support/WebApplicationObjectSupport.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/multipart/MultipartException.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/request/async/CallableProcessingInterceptor.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/WebApplicationObjectSupport.java
*/
jar/org/springframework/web/bind/support/WebArgumentResolver.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/context/request/AsyncWebRequestInterceptor.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/http/client/AbstractBufferingClientHttpRequest.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/http/client/support/InterceptingAsyncHttpAccessor.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/context/request/async/CallableProcessingInterceptorAdapter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/bind/support/DefaultDataBinderFactory.java
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jar/org/springframework/web/context/support/StaticWebApplicationContext.java
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jar/org/springframework/web/context/support/ServletContextAttributeFactoryBean.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/method/support/HandlerMethodReturnValueHandler.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/util/pattern/CaptureTheRestPathElement.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/framework/HttpOutputMessage.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/CorsProcessor.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/reactive/SslInfo.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/request/async/WebAsyncUtils.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/client/AsyncRestTemplate.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/remoting/jaxws/AbstractJaxWsServiceExporter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/remoting/caucho/HessianExporter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/reactive/ClientHttpConnector.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/context/request/FacesRequestAttributes.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/server/session/CookieWebSessionIdResolver.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/server/WebSession.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/filter/RelativeRedirectFilter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/reactive/JettyResourceFactory.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/multipart/support/MultipartHttpServletRequest.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/codec/ServerSentEvent.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/codec/CodecConfigurerFactory.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/ServletContextAttributeExporter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/StandardServletMultipartResolver.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/reactive/ClientHttpConnector.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/reactive/JettyResourceFactory.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/support/BasicAuthorizationInterceptor.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/remoting/httpinvoker/HttpComponentsHttpInvokerRequestExecutor.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/codec/ServerSentEvent.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/server/reactive/ContextPathCompositeHandler.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/server/reactive/HttpHandler.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/jsf/el/WebApplicationContextFacesELResolver.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/ServletContextResource.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/filter/CharacterEncodingFilter.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/AbstractReactiveWebInitializer.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/ContextLoader.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/async/WebAsyncTask.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/ServletConfigAware.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/RequestContextAware.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/request/async/AsyncTask.java
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# Although created for httpd, this file is used by many software systems
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# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
# This file was retrieved from
# MIME type (lowercased)Extensions
# ===============================================================
| application/1d-interleaved-parityfec |
| application/3gpdash-qoe-report+xml |
| application/3gpp-ims+xml |
| application/a2l |
| application/activemessage |
| application/alto-costmap+json |
| application/alto-costmapfilter+json |
| application/alto-directory+json |
| application/alto-endpointcost+json |
| application/alto-endpointcostparams+json |
| application/alto-endpointprop+json |
| application/alto-endpointpropparams+json |
| application/alto-error+json |
| application/alto-networkmap+json |
| application/alto-networkmapfilter+json |
| application/aml |
| application/andrew-insetez |
| application/applefile |
| application/applixwareaw |
| application/atf |
| application/atfx |
| application/atom+xml | atom |
| application/atomcat+xml | atomcat |
| application/atomsvc+xml | atomsvc |
| application/atlxml |
| application/auth-policy+xml |
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml				ccxml
# application/ccxml+xml
# application/cdfx+xml
application/cdmi-capabilitycdmia
application/cdmi-containercdmic
application/cdmi-domaincdmid
application/cdmi-objectcdmio
application/cdmi-queuecdmig
application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
application/csvm+xml
codebaseGREECE
application/cu-seemecu
# application/cybercash
# application/davmount+xml
davmount
# application/davmount+xml
da-300
# application/davmount+xml
davmount
# application/davmount+xml
da-300
# application/davmount+xml
da-300
# application/cellml+xml
dcellml
# application/cellml+xml
dcellml
# application/dcnm+xml
dcnm
# application/docbook+xml
dbk
# application/dskp+xml
dskpp
application/dssc+der
d SSC
application/dssc+xml	x SSC
# application/dvcs
application/ecmascriptecma
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml
# application/emotionml+xml
# application/encaprtp
# application/epp+xml
application/epub+zipepub
# application/eshop
# application/example
application/exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fits
# application/font-sfnt
application/font-tdpfrf
application/font-woffwoff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
application/gpx+xml
application/gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudiosk
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml
# application/iotp
application/ipfix
# application/ipp
# application/isup
# application/its+xml
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dar
application/java-serialized-object
tser
application/java-vm
class
application/javascript	ns
# application/jose
# application/jose+json
application/json
json
# application/json-patch+json
# application/json-seq
application/jsonml+jsonjsonml
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/lf+xml
# application/lgr+xml
# application/link-format
# application/load-control+xml
application/lost+xmllostxml
# application/lostsync+xml
# application/lxf
application/mac-binhex40	hqx
application/mac-compactpro
cpt
# application/macwriteii
application/mads+xmlmads
application/marc
mrc
application/marcxml+xmlmrcx
application/mathematica
nb nb
application/mathml+xmlmathml
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# application/mathml-presentation+xml
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application/pdf+xml
# application/pgp-encrypted
# application/pgp-keys
application/pgp-signatureasc sig
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# application/pidf+xml
# application/pidf-diff+xml
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# application/pkcs12
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# application/poc-settings+xml
application/postscriptai eps ps
# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
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# application/prs.hpub+zip
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# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xmlpskcxml
# application/qsig
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application/relinfo+xmlrlrif
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# application/reputon+json
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# application/riscos
# application/rlmi+xml
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# application/rpki-updown
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# application/vnd.3gpp.mid-call+xml
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# application/vnd.3gpp.ussd+xml
# application/vnd.3gpp2.bcmcsinfo+xml
# application/vnd.3gpp2.sms
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# application/vnd.3lightssoftware.imagescal
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application/x-directordir dcr dxr est cct cxt w3d fgd swa
application/x-doomwad
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# application/x-font-framemaker
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# application/x-font-vfont
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# video/smpte292m
# video/ulpfec
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# video/vnd.iptvforum.ttsmpeg2
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# video/vnd.motorola.videop
video/vnd.mpegurlmux m4u
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# video/vnd.nokia.interleaved-multimedia
# video/vnd.nokia.videovoip
# video/vnd.objectvideo
# video/vnd.radgametools.bink
# video/vnd.radgametools.smacker
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# video/vnd.sealed.mpeg4
# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
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video/vnd.vivoviv
# video/vp8
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video/x-flv
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video/x-mngmng
video/x-ms-asfasf asx
video/x-ms-vobvob
video/x-ms-wmwm
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video/x-ms-wxwvx
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video/x-sgi-moviemovie
video/x-smvsmv
x-conference/x-cooltalkice

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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/method/ControllerAdviceBean.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/cors/reactive/UrlBasedCorsConfigurationSource.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/fillter/CorsFilter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/reactive/AbstractServerHttpResponse.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/DefaultPathContainer.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/DelegatingServerHttpResponse.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/SpringServletContainerInitializer.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/client/reactive/ReactorResourceFactory.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/WebApplicationContextUtils.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/ServletContextLiveBeansView.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/util/pattern/PathPattern.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/codec/multipart/MultipartHttpMessageWriter.java
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/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/request/async/AsyncRequestTimeoutException.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/request/DeferredResult.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/multipart/support/StandardServletPartUtils.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/server/WebExceptionHandler.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/codec/multipart/MultipartHttpMessageReader.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/converter/AbstractHttpMessageConverter.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/ReactiveHttpOutputMessage.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/WebExceptionHandler.java */
/* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/ReactiveHttpOutputMessage.java */
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org.springframework.web.server.adapter.WebHttpHandlerBuilder$SpringWebBlockHoundIntegration

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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/support/ServletConfigPropertySource.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/ServerHttpRequest.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/jsf/FacesContextUtils.java

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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/server/session/InMemoryWebSessionStore.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/client/HttpServerErrorException.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/codec/cbor/Jackson2CborEncoder.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/PathContainer.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/handler/DefaultWebFilterChain.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/client/RestClientResponseException.java

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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources.jar/org/springframework/web/cors/reactive/CorsWebFilter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources.jar/org/springframework/http/client/InterceptingClientHttpRequest.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources.jar/org/springframework/http/client/support/DefaultClientCodecConfigurer.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources.jar/org/springframework/http/context/support/AnnotationConfigWebApplicationContext.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources.jar/org/springframework/http/context/ContextCleanupListener.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources.jar/org/springframework/http/context/support/ServletContextScope.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources.jar/org/springframework/web/util/HtmlUtils.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources.jar/org/springframework/web/context/support/ServletContextScope.java

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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/converter/xml/Jaxb2RootElementHttpMessageConverter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/filter/reactive/ForwardedHeaderFilter.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/request/ServletRequestAttributes.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/util/pattern/PathPatternRouteMatcher.java

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c) Accompany the work with a written offer, valid for at least
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#
# This file contains large and complex schemas obtained from open-source
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#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
  db eval {
    CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
TEXT NOT NULL DEFAULT ",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT ",b_blob
BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL

    }"}
CREATE TABLE `rule` (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_description TEXT NOT NULL DEFAULT '', t_definition TEXT NOT NULL DEFAULT '', t_action_description TEXT NOT NULL DEFAULT '', t_action_definition TEXT NOT NULL DEFAULT '', t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), f_sortorder FLOAT);

CREATE TABLE `budget` (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N')), f_budgeted FLOAT NOT NULL DEFAULT 0.0, f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0, i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12);

CREATE TABLE `budgetcategory` (id INTEGER NOT NULL DEFAULT 0, id_category INTEGER NOT NULL DEFAULT 0);

CREATE TABLE `budgetrule` (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')), t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN ('Y', 'N')), i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12), t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_month_condition IN ('Y', 'N')), i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-1, 0, 1)), f_quantity FLOAT NOT NULL DEFAULT 0.0, t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN ('Y', 'N')), rc_category_id_target INTEGER NOT NULL DEFAULT 0, t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')), t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('N', 'C', 'Y')));

CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, d_date DATE NOT NULL DEFAULT '0000-00-00', rd_operation_id INTEGER NOT NULL, i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0), t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')), t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')), i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0), t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')), i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0), t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')), i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0);

CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_fullname TEXT, rd_category_id INT, t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE "account" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_number TEXT NOT NULL DEFAULT '', t_agency_number TEXT NOT NULL DEFAULT '', t_agency_address TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')), t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'D', 'A', 'T', 'L', 'W', 'O')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), rd_bank_id INTEGER NOT NULL);

CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_fullname TEXT, t_icon TEXT, t_data TEXT, rd_node_id INT, t_sortorder INT, t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')), t_data TEXT, rd_node_id INT, constraint fk_id REFERENCES node(id) ON DELETE CASCADE);

CREATE TABLE vm_category_display_tmp (id INT, t_name TEXT, t_fullname TEXT,
rd_category_id INT,
t_bookmarked TEXT,
i_NBOPERATIONS,
f_REALCURRENTAMOUNT
);

CREATE TABLE vm_budget_tmp(
id INT,
rc_category_id INT,
t_including_subcategories TEXT,
f_budgeted REAL,
f_budgeted_modified REAL,
f_transferred REAL,
i_year INT,
i_month INT,
tCATEGORY,
t_PERIOD,
f_CURRENTAMOUNT,
t_RULES
);

CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id,
t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilises par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id')
WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilises par budget)
Nom de la contrainte: fkd_budget_category_rc_category_id_id')
WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilises par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id')
WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilises par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id')
WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilises par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id')
WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilises par category)
Nom de la contrainte: fki_category_category_rd_category_id_id')
WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilises par category)
Nom de la contrainte: fku_category_category_rd_category_id_id')
WHERE NEW.rc_category_id_target!=0 AND
NEW.rc_category_id_target!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_category_category_rd_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilises par category)
Nom de la contrainte: fkd_category_category_rd_category_id_id')
WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (doctransactionitem est utilis par doctransactionitem)')
WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL;
END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id Before UPDATE ON doctransactionitem FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransactionitem est utilis par doctransactionitem)')
WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL;
END;
CREATE TRIGGER fkdc_doctransactionitem_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionitem FOR EACH ROW BEGIN
DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id;
END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id Before INSERT ON doctransactionmsg FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (doctransactionmsg est utilis par doctransactionmsg)')
WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL;
END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id Before UPDATE ON doctransactionmsg FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransactionmsg est utilis par doctransactionmsg)')
WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL;
END;
CREATE TRIGGER fkdc_doctransactionmsg_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN
DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id;
END;
CREATE TRIGGER fki_interest_account_rd_account_id_id Before INSERT ON interest FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (account est utilis par interest)')
WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL;
END;
CREATE TRIGGER fku_interest_account_rd_account_id_id Before UPDATE ON interest FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)')
WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL;
END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM interest WHERE interest.rd_account_id = OLD.id;
END;
CREATE TRIGGER fki_node_node_rd_node_id_id Before INSERT ON node FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (node est utilis par node)')
WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL;
END;
CREATE TRIGGER fku_node_node_rd_node_id_id Before UPDATE ON node FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)')
WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL;
END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN

DELETE FROM node WHERE node.rd_node_id = OLD.id; END;

CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id‘) WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id‘) WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;

CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id‘) WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;

CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id‘) WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;

CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;

CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id‘) WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;

CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id‘) WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;

CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id‘) WHERE (SELECT rc_unit_id FROM operation WHERE rc_unit_id = OLD.id) IS NOT NULL; END;

CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id‘) WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;

CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id‘) WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;

CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par operationbalance) Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par operationbalance) Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par recurrentoperation) Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par recurrentoperation) Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par suboperation) Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par suboperation) Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par suboperation) Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!="" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par suboperation) Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!="" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par subopération)
Nom de la contrainte: fku_suboperation_category_r_category_id_id')  WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!=-"" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH
ROW BEGIN  UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH
ROW BEGIN  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilisé par subopération)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id')  WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!=-"" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH
ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilisé par subopération)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id')  WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!=-"" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW
BEGIN  UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN  SELECT
RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id')  WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=-"" AND
(SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN  SELECT
RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id')  WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=-""
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN  DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN  SELECT
RAISE(ABORT, 'Impossible d’ajouter un objet (unitvalue est utilisé par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id')  WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=-""
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN  SELECT
RAISE(ABORT, 'Impossible de modifier un objet (unitvalue est utilisé par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id')  WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=-""
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unitvalue_unit_rd_unit_id_id BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN  DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR
EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de détruire un objet (category est utilisé par
vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id')  WHERE (SELECT rc_category_id
FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON
category FOR EACH ROW BEGIN  DELETE FROM vm_category_display_tmp WHERE
vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *, (SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id)
AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN "" ELSE (SELECT (CASE WHEN s.t_symbol!=''
THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y' THEN 'année(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, t_DISPLAYNAME FROM v_recurrentoperation WHERE v_recurrentoperation.rd_operation_id=v_operation_displayname.id );
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_suboperation_display AS SELECT * FROM v_suboperation WHERE v_suboperation.rd_suboperation_id=v_suboperation_display.id
CREATE VIEW v_suboperation_displayname AS SELECT *, t_DISPLAYNAME FROM v_suboperation_display;
CREATE VIEW v_operation AS SELECT * FROM operation;
CREATE VIEW v_operation_display AS SELECT * FROM v_operation WHERE d_date!='0000-00-00';
r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autoris é d’effacer ce tiers car utilise par des opérations rapprochées' END) t_delete_message FROM payee;

CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;

CREATE VIEW v_payee_display AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname["\%"] AND t_status='Y') THEN 'Vous n’êtes pas autoris é d’effacer cette catégorie car utilise par des opérations rapprochées' END) t_delete_message FROM category;

CREATE VIEW v_category_display_tmp AS SELECT *, (SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;

CREATE VIEW v_category_display AS SELECT *, f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD,

(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSENLS FROM vm_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *, (SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;

CREATE VIEW v_interest AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Négatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' END) AS t_WHATNLS, (CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Annee' END) AS t_RULENLS FROM budgetrule;

CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_DISPLAYNAME FROM v_budgetrule;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id), '') AS t_CATEGORY, (i_year||' '||i_month) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY v_budgetrule_displayname.t_absolute DESC) AS t_RULES FROM budget;

CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTA, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;

CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTA, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM vm_budget_tmp;

CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS t_displayname FROM v_budget;

CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||OLD.uuid; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)>> ||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)>> ||new.t_name END WHERE id=new.id;UPDATE category SET t_name=t_name WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;

explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
FROM v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/.* Goto .*/}

# The next test requires FTS4
ifcapable !fts3 {
finish_test
return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
  db eval {
    CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
    CREATE VIRTUAL TABLE fts USING fts4;
    CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
    CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
"mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
"mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
INTEGER, "mfo:optional:graph" INTEGER);
    CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updatedTime" INTEGER, "mfo:updatedTime:localDate" INTEGER,
"mfo:updatedTime:localTime" INTEGER, "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
"mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action"
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
"mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL,
"mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL,
"mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER,
"mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime"
INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL,
"mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT
NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph"
INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT
NULL, "mlo:belongsToCategory" INTEGER NOT NULL,
"mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL,
"mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER
NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL,
"mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER
NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL,
"mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID
INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL,
"mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID
INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL,
"mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL,
"mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER,
"mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL,
"mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL,
"mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER,
"mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL, "mto:transferList" INTEGER NOT NULL, "mto:transferList:graph" INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT NULL, "mto:transferPrivacyLevel" TEXT NOT NULL, "mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT NULL, "mto:transferCategory" TEXT NOT NULL, "mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY, "nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph" INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE, "nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY, "nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER, "nao:description" TEXT COLLATE NOCASE, "nao:description:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL, "tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL, "tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph" INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL, "ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER, "ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER, "ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER, "ncal:attachmentContent" TEXT COLLATE NOCASE, "ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER, "ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER, "ncal:sentBy" INTEGER, "ncal:sentBy:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:bydayModifier" INTEGER NOT NULL, "ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT NULL, "ncal:bydayModifier" INTEGER NOT NULL, "ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL, "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL, "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER, "ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL, "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER, "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER, "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);


CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:related" INTEGER, "ncal:related:graph" INTEGER, "ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER, "ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER);

CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);

"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtend" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE NOCASE,
"ncal:relatedToSibling:graph" INTEGER, "ncal:duration" INTEGER,
"ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL,
"ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL,
"ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT NULL,
"ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL,
"ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL,
"ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL,
"ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL,
"ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL,
"ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY,  
"nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER,  
"nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL,  
"nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact" (ID INTEGER NOT NULL PRIMARY KEY,  
"nco:fullname" TEXT COLLATE NOCASE, "nco:fullname:graph" INTEGER,  
"nco:key" INTEGER, "nco:key:graph" INTEGER, "nco:contactUID" TEXT COLLATE NOCASE, "nco:contactUID:graph" INTEGER,  
"nco:hasLocation" INTEGER, "nco:hasLocation:graph" INTEGER,  
"nco:nickname" TEXT COLLATE NOCASE, "nco:nickname:graph" INTEGER,  
"nco:representative" INTEGER, "nco:representative:graph" INTEGER,  
"nco:photo" INTEGER, "nco:photo:graph" INTEGER, "nco:birthDate" INTEGER, "nco:birthDate:graph" INTEGER, "nco:birthDate:localDate" INTEGER,  
"nco:birthDate:localTime" INTEGER, "nco:sound" INTEGER,  
"nco:sound:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,  
"nco:contactGroupName" TEXT COLLATE NOCASE,  
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact_nco:containsContact" (ID INTEGER NOT NULL,  
"nco:containsContact" INTEGER NOT NULL,  
"nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY,  
"nco:contactMediumComment" TEXT COLLATE NOCASE,  
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,  
"nco:belongsToGroup" INTEGER NOT NULL,  
"nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL,  
"nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,  
"nco:belongsToGroup" INTEGER NOT NULL,  
"nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL,  
"nco:note:graph" INTEGER);
| CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY, "nco:emailAddress" TEXT COLLATE NOCASE UNIQUE, "nco:emailAddress:graph" INTEGER); |
| CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph" INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE, "nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE NOCASE, "nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER, "nco:imEnabled:graph" INTEGER); |
| CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL, "nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph" INTEGER); |
| CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL, "nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER); |
| CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER); |
| CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER); |
| CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER, "nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER, "nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph" INTEGER); |
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
"nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:channels" INTEGER, "nfo:channels:graph" INTEGER,
"nfo:sideChannels" INTEGER, "nfo:sideChannels:graph" INTEGER,
"nfo:lfeChannels" INTEGER, "nfo:lfeChannels:graph" INTEGER,
"nfo:sampleCount" INTEGER, "nfo:sampleCount:graph" INTEGER,
"nfo:bitsPerSample" INTEGER, "nfo:bitsPerSample:graph" INTEGER,
"nfo:frontChannels" INTEGER, "nfo:frontChannels:graph" INTEGER,
"nfo:sampleRate" REAL, "nfo:sampleRate:graph" INTEGER,
"nfo:averageAudioBitrate" REAL, "nfo:averageAudioBitrate:graph" INTEGER,
"nfo:rearChannels" INTEGER, "nfo:rearChannels:graph" INTEGER,
"nfo:gain" INTEGER, "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
"nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
"nfo:audioOffset:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
"nfo:characterPosition" INTEGER, "nfo:characterPosition:graph" INTEGER,
"nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
"nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
"nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL, "nfo:containsBookmark" INTEGER NOT NULL,
"nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL,
"nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:originalLocation" TEXT COLLATE NOCASE,
"nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
"nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER,
"nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:tableOfContents" TEXT COLLATE NOCASE,
"nfo:tableOfContents:graph" INTEGER);
<table>
<thead>
<tr>
<th>Column Name</th>
<th>Data Type</th>
<th>Collation</th>
</tr>
</thead>
<tbody>
<tr>
<td>nie:comment:graph</td>
<td>INTEGER</td>
<td>NULL</td>
</tr>
<tr>
<td>nie:isStoredAs:graph</td>
<td>INTEGER</td>
<td>NULL</td>
</tr>
<tr>
<td>nie:version:graph</td>
<td>TEXT</td>
<td>NOCASE</td>
</tr>
<tr>
<td>nie:isStoredAs:localDate</td>
<td>INTEGER</td>
<td>NULL</td>
</tr>
<tr>
<td>nie:version:localDate</td>
<td>TEXT</td>
<td>NOCASE</td>
</tr>
<tr>
<td>nie:isStoredAs:localTime</td>
<td>INTEGER</td>
<td>NULL</td>
</tr>
<tr>
<td>nie:version:localTime</td>
<td>TEXT</td>
<td>NOCASE</td>
</tr>
<tr>
<td>nie:isStoredAs:graph:localDate</td>
<td>INTEGER</td>
<td>NULL</td>
</tr>
<tr>
<td>nie:version:localTime:localDate</td>
<td>TEXT</td>
<td>NOCASE</td>
</tr>
<tr>
<td>nie:isStoredAs:localTime:localTime</td>
<td>INTEGER</td>
<td>NULL</td>
</tr>
<tr>
<td>nie:version:localTime:localTime:localTime</td>
<td>TEXT</td>
<td>NOCASE</td>
</tr>
<tr>
<td>nie:isStoredAs:graph:localDate:localTime</td>
<td>INTEGER</td>
<td>NULL</td>
</tr>
<tr>
<td>nie:isStoredAs:localDate:localTime:localTime:localTime:localTime</td>
<td>INTEGER</td>
<td>NULL</td>
</tr>
</tbody>
</table>

CREATE TABLE nie:InformationElement_mlo:location (ID INTEGER NOT NULL, mlo:location INTEGER NOT NULL, mlo:location:graph INTEGER);
CREATE TABLE nie:InformationElement_nao:hasProperty (ID INTEGER NOT NULL, nao:hasProperty INTEGER NOT NULL, nao:hasProperty:graph INTEGER);
CREATE TABLE nie:InformationElement_nco:contributor (ID INTEGER NOT NULL, nco:contributor INTEGER NOT NULL, nco:contributor:graph INTEGER);
CREATE TABLE nie:InformationElement_nco:creator (ID INTEGER NOT NULL, nco:creator INTEGER NOT NULL, nco:creator:graph INTEGER);
CREATE TABLE nie:InformationElement_nie:hasLogicalPart (ID INTEGER NOT NULL, nie:hasLogicalPart INTEGER NOT NULL, nie:hasLogicalPart:graph INTEGER);
CREATE TABLE nie:InformationElement_nie:hasPart (ID INTEGER NOT NULL, nie:hasPart INTEGER NOT NULL, nie:hasPart:graph INTEGER);
CREATE TABLE nie:InformationElement_nie:informationElementDate (ID INTEGER NOT NULL, nie:informationElementDate INTEGER NOT NULL, nie:informationElementDate:localDate INTEGER NOT NULL, nie:informationElementDate:localTime INTEGER NOT NULL);
CREATE TABLE nie:InformationElement_nie:isLogicalPartOf (ID INTEGER NOT NULL, nie:isLogicalPartOf INTEGER NOT NULL, nie:isLogicalPartOf:graph INTEGER);
CREATE TABLE nie:InformationElement_nie:keyword (ID INTEGER NOT NULL, nie:keyword TEXT NOT NULL, nie:keyword:graph INTEGER);
CREATE TABLE nie:InformationElement_nie:relatedTo (ID INTEGER NOT NULL, nie:relatedTo INTEGER NOT NULL, nie:relatedTo:graph INTEGER);
```
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER,
"nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER);
CREATE TABLE "nmm:DigitalRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:streamingBitrate" INTEGER, "nmm:streamingBitrate:graph" INTEGER,
"nmm:encoding" TEXT COLLATE NOCASE, "nmm:encoding:graph" INTEGER,
"nmm:protocol" TEXT COLLATE NOCASE, "nmm:protocol:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbum" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:albumTrackCount" INTEGER, "nmm:albumTrackCount:graph" INTEGER,
"nmm:albumTitle" TEXT COLLATE NOCASE, "nmm:albumTitle:graph" INTEGER,
"nmm:albumDuration" INTEGER, "nmm:albumDuration:graph" INTEGER,
"nmm:albumGain" INTEGER, "nmm:albumGain:graph" INTEGER,
"nmm:albumPeakGain" INTEGER, "nmm:albumPeakGain:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER,
"nmm:musicCDIdentifier" TEXT COLLATE NOCASE,
"nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER,
"nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:musicAlbum" INTEGER, "nmm:musicAlbum:graph" INTEGER,
"nmm:musicAlbumDisc" INTEGER, "nmm:musicAlbumDisc:graph" INTEGER,
"nmm:beatsPerMinute" INTEGER, "nmm:beatsPerMinute:graph" INTEGER,
"nmm:performer" INTEGER, "nmm:performer:graph" INTEGER, "nmm:composer" INTEGER, "nmm:lyricist" INTEGER,
"nmm:lyricist:graph" INTEGER, "nmm:trackNumber" INTEGER,
"nmm:trackNumber:graph" INTEGER,
"nmm:internationalStandardRecordingCode" TEXT COLLATE NOCASE,
"nmm:internationalStandardRecordingCode:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL,
"nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash" INTEGER, "nmm:flash:graph" INTEGER, "nmm:fnumber" REAL,
"nmm:fnumber:graph" INTEGER, "nmm:focalLength" REAL,
"nmm:focalLength:graph" INTEGER, "nmm:isoSpeed" REAL,
"nmm:isoSpeed:graph" INTEGER, "nmm:meteringMode" INTEGER,
"nmm:meteringMode:graph" INTEGER, "nmm:whiteBalance" INTEGER,
```

CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY" INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL, "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL, "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL, "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL, "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL, "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered" INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER, "nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER, "nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph" INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER, "nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER, "nmo:htmlMessageContent" TEXT COLLATE NOCASE, "nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE NOCASE, "nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT COLLATE NOCASE, "nmo:messageSubject:graph" INTEGER, "nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER, "nmo:receivedDate:localDate" INTEGER, "nmo:receivedDate:localTime" INTEGER, "nmo:replyTo" INTEGER, "nmo:replyTo:graph" INTEGER, "nmo:sender" INTEGER, "nmo:sender:graph" INTEGER, "nmo:conversation" INTEGER, "nmo:conversation:graph" INTEGER, "nmo:communicationChannel"
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<thead>
<tr>
<th>Table Name</th>
<th>Columns</th>
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<td>nmo:PhoneMessageFolder</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, nmo:phoneMessageFolderId TEXT COLLATE NOCASE, nmo:containsPhoneMessage INTEGER NOT NULL, nmo:containsPhoneMessageId:graph INTEGER;</td>
</tr>
<tr>
<td>nmo:PhoneMessageFolder_nmo:containsPhoneMessage</td>
<td>ID INTEGER NOT NULL, nmo:containsPhoneMessage INTEGER NOT NULL, nmo:containsPhoneMessageFolder:graph INTEGER;</td>
</tr>
<tr>
<td>nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder</td>
<td>ID INTEGER NOT NULL, nmo:containsPhoneMessageFolder INTEGER NOT NULL, nmo:containsPhoneMessageFolder:graph INTEGER;</td>
</tr>
<tr>
<td>nmo:PhoneMessage_nmo:toVCard</td>
<td>ID INTEGER NOT NULL, nmo:toVCard INTEGER NOT NULL, nmo:toVCard:graph INTEGER;</td>
</tr>
<tr>
<td>nmo:ReportReadStatus</td>
<td>ID INTEGER NOT NULL PRIMARY KEY;</td>
</tr>
<tr>
<td>nmo:SMSMessage</td>
<td>ID INTEGER NOT NULL PRIMARY KEY;</td>
</tr>
<tr>
<td>nmo:TransientChannel</td>
<td>ID INTEGER NOT NULL PRIMARY KEY;</td>
</tr>
<tr>
<td>nmo:VOIPCall</td>
<td>ID INTEGER NOT NULL PRIMARY KEY;</td>
</tr>
<tr>
<td>osinfo:Installer</td>
<td>ID INTEGER NOT NULL PRIMARY KEY;</td>
</tr>
<tr>
<td>poi:ObjectOfInterest</td>
<td>ID INTEGER NOT NULL PRIMARY KEY;</td>
</tr>
<tr>
<td>rdf:Property_rdfs:subPropertyOf</td>
<td>ID INTEGER NOT NULL, rdf:subPropertyOf INTEGER NOT NULL, rdf:subPropertyOf:graph INTEGER;</td>
</tr>
<tr>
<td>rdf:Class</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, tracker:notify INTEGER, tracker:notify:graph INTEGER;</td>
</tr>
<tr>
<td>rdf:Class_rdfs:subClassOf</td>
<td>ID INTEGER NOT NULL, rdf:subClassOf INTEGER NOT NULL, rdf:subClassOf:graph INTEGER;</td>
</tr>
<tr>
<td>rdf:Class_tracker:domainIndex</td>
<td>ID INTEGER NOT NULL, tracker:domainIndex INTEGER NOT NULL, tracker:domainIndex:graph INTEGER;</td>
</tr>
<tr>
<td>rdfs:Literal</td>
<td>ID INTEGER NOT NULL PRIMARY KEY;</td>
</tr>
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</table>
"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER,
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER,
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER,
"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE,
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE,
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE,
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"dc:description:graph" INTEGER, "dc:identifier" TEXT COLLATE NOCASE,
"dc:identifier:graph" INTEGER, "nao:identifier" TEXT COLLATE NOCASE,
"nao:identifier:graph" INTEGER, "nao:numericRating" REAL,
"nao:numericRating:graph" INTEGER, "nao:lastModified" INTEGER,
"nao:lastModified:graph" INTEGER, "nao:lastModified:localDate"
INTEGER, "nao:lastModified:localTime" INTEGER);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL,
"dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date"
INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER
NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL,
"dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL,
"dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL,
"nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL,
"nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL,
"nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type"
INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:attendanceStatus" INTEGER, "scal:attendanceStatus:graph"
INTEGER, "scal:attendeeRole" INTEGER, "scal:attendeeRole:graph"
INTEGER, "scal:attendeeContact" INTEGER, "scal:attendeeContact:graph"
INTEGER, "scal:rsvp" INTEGER, "scal:rsvp:graph" INTEGER,
"scal:calendarUserType" INTEGER, "scal:calendarUserType:graph"
INTEGER);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL,
"scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph"
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, "scal:recurrencePattern" TEXT COLLATE NOCASE, ...
"scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, "scal:dateTime:graph" INTEGER, "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY, "scal:todoStatus:graph" INTEGER, "scal:due:graph" INTEGER, "scal:completed:graph" INTEGER, "scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY, "slo:isRemovable:graph" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL, "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY, "slo:startTime:graph" INTEGER, "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER, "slo:endTime:graph" INTEGER, "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
"tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
"tracker:unmountDate:localDate" INTEGER,
"tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER,
"tracker:isRemovable" INTEGER, "tracker:isRemovable:graph" INTEGER,
"tracker:isOptical" INTEGER, "tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON
"mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBoxBox_ID_ID" ON
"mlo:GeoLocation_mlo:asBoundingBoxBox" ("mlo:asBoundingBoxBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON
"mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON
"mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON
"mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON
"mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON
"mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON
"mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON
"mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON
"mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON
"mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON
"mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON "mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON "mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID,
"mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID,
"mlo:boxNorthLimit");
CREATE UNIQUE INDEX
"mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID,
"mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX
"mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID,
"mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID,
"mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID,
"mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON "nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact.ncal:birthday_ID_ID" ON "nco:Contact.ncal:birthday" (ID, "ncal:birthday")
CREATE UNIQUE INDEX "nco:Contact.nco:belongsToGroup_ID_ID" ON "nco:Contact.nco:belongsToGroup" (ID, "nco:belongsToGroup")
CREATE UNIQUE INDEX "nco:Contact.nco:note_ID_ID" ON "nco:Contact.nco:note" (ID, "nco:note")
CREATE UNIQUE INDEX "nco:Contact.scal:anniversary_ID_ID" ON "nco:Contact.scal:anniversary" (ID, "scal:anniversary")
CREATE UNIQUE INDEX "nco:Contact.scal:birthday_ID_ID" ON "nco:Contact.scal:birthday" (ID, "scal:birthday")
CREATE UNIQUE INDEX "nco:IMAccount.nco:hasIMContact_ID_ID" ON "nco:IMAccount.nco:hasIMContact" (ID, "nco:hasIMContact")
CREATE UNIQUE INDEX "nco:IMAddress.nco:imCapability_ID_ID" ON "nco:IMAddress.nco:imCapability" (ID, "nco:imCapability")
CREATE UNIQUE INDEX "nco:PersonContact.nco:hasAffiliation_ID_ID" ON "nco:PersonContact.nco:hasAffiliation" (ID, "nco:hasAffiliation")
CREATE INDEX "nco:PersonContact.nco:nameFamily" ON "nco:PersonContact" ("nco:nameFamily")
CREATE INDEX "nco:PhoneNumber.nco:phoneNumber" ON "nco:PhoneNumber" ("nco:phoneNumber")
CREATE UNIQUE INDEX "nco:Role.nco:blogUrl_ID_ID" ON "nco:Role.nco:blogUrl" (ID, "nco:blogUrl")
CREATE UNIQUE INDEX "nco:Role.nco:foafUrl_ID_ID" ON "nco:Role.nco:foafUrl" (ID, "nco:foafUrl")
CREATE UNIQUE INDEX "nco:Role.nco:hasContactMedium_ID_ID" ON "nco:Role.nco:hasContactMedium" (ID, "nco:hasContactMedium")
CREATE INDEX "nco:Role.nco:hasEmailAddress_ID" ON "nco:Role.nco:hasEmailAddress" (ID)
CREATE UNIQUE INDEX "nco:Role.nco:hasEmailAddress_ID_ID" ON "nco:Role.nco:hasEmailAddress" ("nco:hasEmailAddress", ID)
CREATE UNIQUE INDEX "nco:Role.nco:hasIMAddress_ID_ID" ON "nco:Role.nco:hasIMAddress" (ID, "nco:hasIMAddress")
CREATE UNIQUE INDEX "nco:Role.nco:hasPhoneNumber_ID_ID" ON "nco:Role.nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber")
CREATE INDEX "nco:Role.nco:hasPostalAddress_ID" ON "nco:Role.nco:hasPostalAddress" (ID)
CREATE UNIQUE INDEX "nco:Role.nco:hasPostalAddress_ID_ID" ON "nco:Role.nco:hasPostalAddress" ("nco:hasPostalAddress", ID)
CREATE UNIQUE INDEX "nco:Role.nco:url_ID_ID" ON "nco:Role.nco:url" (ID, "nco:url")
CREATE UNIQUE INDEX "nco:Role.nco:websiteUrl_ID_ID" ON "nco:Role.nco:websiteUrl" (ID, "nco:websiteUrl")
CREATE UNIQUE INDEX "nfo:BookmarkFolder.nfo:containsBookmarkFolder_ID_ID" ON "nfo:BookmarkFolder.nfo:containsBookmarkFolder" (ID, "nfo:containsBookmarkFolder")
CREATE UNIQUE INDEX "nfo:BookmarkFolder.nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder.nfo:containsBookmark" (ID,
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON "nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON "nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON "nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON "nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON "nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON "nie:InformationElement_nie:hasLogicalPart" (ID, "nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON "nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement_nie:informationElementDate" (ID, "nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON "nie:InformationElement_nie:isLogicalPartOf" (ID, "nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON "nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON "nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON "nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON "nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to" ("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON "nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON "nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID, "nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdf:Property_rdfs:subPropertyOf_ID_ID" ON "rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON "rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON "rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON "rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON "rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON "rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON "rdfs:Resource_nao:hasTag" ("nao:hasTag", ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON "rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON "rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON "scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON "scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON "scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON "scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON "scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON "scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID" ON "scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON "scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON "scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation" ("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON "slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON "slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON "slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM "nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM "nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM...
"nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation8","ID"), (SELECT GROUP_CONCAT("6_u", ',') FROM (SELECT "rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" WHERE "1_u" = "rdfs:Resource_nao:hasTag9","ID")), (SELECT Uri FROM Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u" || ? COLLATE NOCASE || COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT "nco:department" FROM "nco:Affiliation" WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT GROUP_CONCAT("nco:title",')' FROM "nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE), 'u') FROM (SELECT "nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation10","ID"), (SELECT GROUP_CONCAT("note",',') FROM "nco:Contact_nco:note" WHERE ID = "1_u"), (SELECT "nco:gender" FROM "nco:PersonContact" WHERE ID = "1_u"), (SELECT GROUP_CONCAT("7_u" || ? COLLATE NOCASE || COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT "nco:district" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT "nco:county" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT "nco:locality" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT "nco:postalcode" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT "nco:streetAddress" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT Uri FROM Resource WHERE ID = (SELECT "nco:addressLocation" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT "nco:extendedAddress" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT "nco:country" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE || COALESCE((SELECT "nco:region" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)) || COLLATE NOCASE, 'u') FROM (SELECT "nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress" AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS
"nco:Role_nco:hasPostalAddress12" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation11".","ID" AND
"nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" =
"nco:Role_nco:hasPostalAddress12","ID")), (SELECT
GROUP_CONCAT("10_u" COLLATE NOCASE, ",") FROM (SELECT
"nie:InformationElement_nao:hasProperty13","nao:hasProperty" AS
"8_u", "nao:Property14"."nao:propertyName" AS "9_u",
"nao:Property14"."nao:propertyValue" AS "10_u" FROM
"nie:InformationElement_nao:hasProperty" AS
"nie:InformationElement_nao:hasProperty13", "nco:Property" AS
"nco:Property14" WHERE "1_u" =
"nie:InformationElement_nao:hasProperty13"."ID" AND
"nie:InformationElement_nao:hasProperty13","nco:hasProperty" =
"nco:PersonContact1"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE))) FROM (SELECT
"nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";
}
} {/.* Goto */

finish_test

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

without a shared lock, other processes are free to modify the database

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

<h3>Proprietary SQLite Extensions</h3>
<a href="copyright.html">public domain</a>. But there also exist proprietary, licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

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

)putinterval

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

Suppose the demo_data.boundary field holds some proprietary data description

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

Sources are in the public domain. Rather than using fopen() to write XML or some proprietary format into

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

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
#$Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
ifcapable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
# do_test fts2c-1.1 {
CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent
product. See rules below:

?If the transaction volume on the child is less than half of the parent”s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent”s minimum volume but less than half the volume
increment on the parent, the hedge will volume will be the parent”s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent”s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transactionVolume Hedged
1      - 24990
2500 - 54995000
5500 - 649960000

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
If it”s ok with everyone”s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o”clock hour just let me know; I”ll
be more than willing to stay.

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'louise.kitchen@enron.com', '<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work
request', 'Julie,
Could you print off the current work request report by 1:30 today?

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 3075
Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

'));
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well. Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WS CC (Diablo Canyon), & NP CC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610)

-- About St Pauls.url
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.\');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ;
110.000 / HPL IFERC
LS HPL LSK IC       30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??
Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.
');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13t floor.
Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com, jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of
which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To:Bayer, Adam
Subject:Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to
"unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "+" by the title of calculated points.';
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ---------------------------
"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
');

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal: East Northeast
Dick Jenkins: East Marketeast

WK
');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.'
An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Cheers and have a nice weekend,

JHHerbert
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,' Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,
Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission-based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01
You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----
"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

');
Who is General Brinks?

Fletch);

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters
of intent
Review Enron asset base for potential reuse/ licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ')

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

'):;

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard
I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com','2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,
I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com.', 'Postings', 'Please see the attached.

ds
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090 (principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???', 'What about this too???

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a “in w/h Chile” contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks !

Best regards

Diana Seifert
EOL PCG');
The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

Australia: 1800 678-515
support@palm-au.com

Canada: 1905 305-6530
support@palm.com

New Zealand: 0800 446-398
support@palm-nz.com

U.K.: 0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.';

----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now
-----Original Message-----
From: Storey, Geoff  
Sent: Wednesday, October 31, 2001 10:10 AM  
To: Quigley, Dutch  
Subject: RE:  
give me a contact over there too  
BP

-----Original Message-----
From: Quigley, Dutch  
Sent: Wednesday, October 31, 2001 9:42 AM  
To: Storey, Geoff  
Subject: 

CoralJeff Whitnah713-767-5374  
RelaintSteve McGinn713-207-4000');  
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.  
Variance detected.  
Variance detected in Load schedule.  

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

----- Load Schedule ----
$$ Variance found in table tblLoads.  
Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)  
TRANS_TYPE: FINAL  
LOAD_ID: PGE4  
MKT_TYPE: 2  
TRANS_DATE: 4/22/01  
SC_ID: EPMI  
');  
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.  

John');  
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15.....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP, '
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztztoolzprint.jpg';
   COMMIT;
} }
} {}
do_test fts2c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
  }
} {}
do_test fts2c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
}
do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
}

do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
}

do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
}

# Snippet generator tests
#

do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#

do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
}


Review Enron asset base for potential/reuse/licensing
Contract negotiations...

do_test fts2c-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
}

Review Enron asset base for potential/reuse/licensing
Contract negotiations

do_test fts2c-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
}

Re: First Polish Deal! Congrats! Things seem to be building rapidly now on the

do_test fts2c-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
}

chris.germay@enron.com Sounds good to me. I bet this is next to the Warick? Hotel...
place? What do you think about going here Christmas eve? They have an 11:00 a.m.

do_test fts2c-4.7 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'pursuant to'
}
}

Pursuant to your request, attached are the Schedule to...

do_test fts2c-4.8 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
}

pete.davis@enron.com Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING ...

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@enron.com <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}
do_test fts2c-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@enron.com <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}

finish_test

Found in path(s):

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

INSERT INTO x1 VALUES('blonds', 'proprietary');

Found in path(s):

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

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
##
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
##
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent”s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent”s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent”s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent”s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transactionVolume Hedged
1   - 24990
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com.', 'Leaving Early', 'FYI:
If it”s ok with everyone”s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o”clock hour just let me know; I”ll
Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

The producer lumber pricing sheet.

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

')
'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.

Thanks.

Dan
-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com.', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.
Dear Power Outage Database Customer,

Attached you will find an Excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages. In addition to the two Excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know.

Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch. Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc: Subject: About St Pauls
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,' , 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');

INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ; 110.000 / HPL IFERC
LS HPL LSK IC       30.000 / Enron
');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira);
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works. ');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points;

-----BEGIN PGP SIGNED MESSAGE-----
Version: GnuPG v1.2.1 (Windows XP)

--&gt; Originator: "Randa Karkour"
Date: 09/07/2000 09:01:04 AM
To: "Egyptian Festival"
Leila Mankarious
Marymankarious
Michelle lokay
Ramy Mankarious

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

-----END PGP SIGNED MESSAGE-----
Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760);
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com',
'10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

---

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben

---

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

---

Sue Mara
Enron Corp.
Tel: (415) 782-7802
"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM  To: "smara@enron.com"
<smara@enron.com>  cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch);

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

----------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert.
He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
   Review Enron asset base for potential reuse/ licensing
   Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.
agoddard@nisource.com on 03/08/2001 09:16:57 AM
To:         *Koch, Kent" <kkoch@nisource.com>, "         *Millar, Debra" <dmillar@nisource.com>, "         *Burke, Lynn" <lburke@nisource.com>
cc:         *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution”s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard
Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.
I haven't talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference
San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.
We will send you another e-mail to confirm when the Law Conference Website is operational.

Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i''ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I''ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King
If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

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713/627-2011 (fax)
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I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.
Master Agreement’, ‘Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.heaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
Stacy);
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', ', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/);
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', ', 'Jacques,

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:
1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com','william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy','Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

Thanks

chris
x31666

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team
Justin Boyd told me that you can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PGC
support@palm-nz.com

U.K.: 
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start
Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start
Date: 4/22/01; HourAhead hour: 3;  No ancillary
schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final
--- Load Schedule ----

$$$ Variance found in table tblLoads.

   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)

TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I’m seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP',
'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');

    COMMIT;
    }
} {}
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'susan'
    } {24 40}
do_test fts1c-1.4 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark susan'
    } {40}
do_test fts1c-1.5 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'susan mark'
    } {40}
do_test fts1c-1.6 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH '"mark susan"'
    } {}
do_test fts1c-1.7 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark -susan'
    } {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH '-mark susan'
    } {24}
do_test fts1c-1.9 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
    } {6 17 24 25 38 40 42 73 74}
}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'gas reminder'
    }
do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}

do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
}

do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
}

do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
}

do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
}

# Snippet generator tests
#
do_test fts1c-4.1 {
  execsql {

SELECT snippet(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
] { [Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b> ] }
do_test fts1c-4.2 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'christmas candlelight'
}
} { [<b>place</b>...? What do you think about going here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>] }
do_test fts1c-4.3 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} { [EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
Review Enron asset base for <b>potential</b>/ <b>reuse</b>/ licensing
Contract negotiations <b>...</b>] }
do_test fts1c-4.4 {
execsql {
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'deal sheet potential reuse'
}
} { [EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations ] }
do_test fts1c-4.5 {
execsql {
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'first things'
}
} { [Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the ] }
do_test fts1c-4.6 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
}
} { [<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>] }
do_test fts1c-4.7 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH "pursuant to"
}
}
Pursuant to your request, attached are the Schedule to...

\[
\begin{align*}
do_{\text{test}} \text{fts1c-4.8} & \{ \\
\text{execsql} & \{ \\
\text{SELECT snippet(email) FROM email} & \\
\text{WHERE email MATCH 'ancillary load davis'} & \\
\} & \}
\end{align*}
\]

\{pete.\text{davis}@enron.com \text{Start Date: 4/22/01; HourAhead hour: 3; No \text{ancillary}}\}
schedules awarded.
Variances detected.
Variances detected in \text{Load} schedule.

LOG MESSAGES:

PARSING...

# Combinations of AND and OR operators:
#
\[
\begin{align*}
do_{\text{test}} \text{fts1c-5.1} & \{ \\
\text{execsql} & \{ \\
\text{SELECT snippet(email) FROM email} & \\
\text{WHERE email MATCH 'questar enron OR com'} & \\
\} & \}
\end{align*}
\]

\{matt.smith@\text{enron.com} \text{six reports:}
31 Keystone Receipts
15 Questar Pipesineline
40 Rockies Production
22 West_2 ...
\}

\[
\begin{align*}
do_{\text{test}} \text{fts1c-5.2} & \{ \\
\text{execsql} & \{ \\
\text{SELECT snippet(email) FROM email} & \\
\text{WHERE email MATCH 'enron OR com questar'} & \\
\} & \}
\end{align*}
\]

\{matt.smith@\text{enron.com} \text{six reports:}
31 Keystone Receipts
15 Questar Pipesineline
40 Rockies Production
22 West_2 ...
\}

finish_{\text{test}}

Found in path(s):
* /opt/ws_local/PERMITS_{SQL}/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fts1c.test
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

SQLite is open source, and is available in the public domain

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

application code is free to use these routines as well, if desired.

MMFauxFont.prc

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

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:</p>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>
<h3 align="center">Ensures independent technical direction for world's
Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.
<p>About SQLite</p>

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.

CONTACT INFORMATION:
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Dr. D. Richard Hipp
6200 Maple Cove Lane
Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About Mozilla
Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

CONTACT INFORMATION:
Mozilla Corporation
Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com

About Symbian Limited
Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones.
known as smartphones.</p>

Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

CONTACT INFORMATION:  
Symbian Global Press Office  
Karen Hamblen  
+44 207 154 1707  
press@symbian.com

The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

SQLite core and like the SQLite core are in the public domain. The <b>TH3</b> test harness is a set of proprietary tests, written in
** no rollbacks are happening.
*/

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

application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the

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

/ *
** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
** ******************************************************************
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
** */

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

other proprietary or non-standard VFSes.

Found in path(s):
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<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">

---

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 3135
This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ____________, 2007 ("Effective Date") by and between__________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/; and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.
1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

2.1.1 General Support

The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

2.1.2 Debugging Support

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

2.1.3 Custom Development

The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

2.1.4 Custom Builds

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

2.1.5 Legacy Support

The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

2.1.6 Custom Testing

The SQLite Developers shall at Company's request set up and run
acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.
</p>

<h4>2.1.7 Priority Bug Fixes</h4>
<p>The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.
</p>

<h4>2.1.8 Code Quality</h4>
<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.
</p>

<h4>2.1.9 Backwards Compatibility</h4>
<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.
</p>

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.
</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> in good working order and all SQLite source code shall be made freely available at such website.
</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.
</p>
2.2.2 Direction
The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

2.2.3 Oversight
The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

2.2.4 Continuity
The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.

2.3 Responsibilities And Obligations Of Hwaci

2.3.1 Employer
Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

2.3.2 Responsible Party
All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.

2.3.3 Multiple Developers
Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.

2.3.4 Mentorship
Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a
pool of talent able to support SQLite in the future.

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.</p>

<h4>2.3.7 Trademark</h4>
<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> website.</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>
<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.</p>

<h4>2.3.9 New Consortium Members</h4>
<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

<h4>2.3.10 Adequate Staff</h4>
<p>Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance.
<p>and extension of SQLite.</p>

<h4>2.3.11 Use Of Funds</h4>
<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".</p>

<h4>2.4.2 Copyright Disclaimer</h4>
<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.</p>

<h2>3.0 Fees</h2>
<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

<h2>4.0 Confidentiality</h2>
<h3>4.1 Definition of Confidential Information</h3>
<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

<h3>4.2 Non-Use and Non-Disclosure</h3>
Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

4.2.1 Disclosure Required by Law

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

4.3 Return of Materials.

Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

5.0 Intellectual Property
5.1 No Assignment

Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.

5.2 Availability and Public Domain Dedication

The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicensable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.

5.3 Trademark

Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.

6.0 Representations And Warranties
6.1 Intellectual Property Clearances.

Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.

6.2 Disclaimer.

THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.

7.0 Term And Termination

7.1 Term.

This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.

7.2 Termination.

If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.

7.3 Survival.

Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

8. Miscellaneous
8.1 Nonassignment/Binding Agreement.

The parties acknowledge that the unique nature of Hwaci’s services are substantial consideration for the parties’ entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

8.2 Notices.

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

8.3 Waiver.

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.
8.4 Severability.

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

8.5 Integration.

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

8.6 Counterparts.

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

8.7 Governing Law.

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

8.8 Independent Contractors.

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.
<h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to indicate their acceptance of its terms.</p>

<table width="100%" border="0">
<tr><td valign="top">
HWACI<br>By:<hr><p>&nbsp;</p>Print Name:<hr><p>&nbsp;</p>Title:<hr><p>&nbsp;</p></td><td width="10%"></td><td valign="top">
COMPANY<br>By:<hr><p>&nbsp;</p>Print Name:<hr><p>&nbsp;</p>Title:<hr><p>&nbsp;</p></td></tr></table>

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

/*
 ** 2004 May 22
 **
 ** The author disclaims copyright to this source code. In place of
 ** a legal notice, here is a blessing:
 **
 ** May you do good and not evil.
 ** May you find forgiveness for yourself and forgive others.
 ** May you share freely, never taking more than you give.
 **
 <<<**************************************************************************
 **
 ** This file contains the VFS implementation for unix-like operating systems
 ** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
 **
 ** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.

** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.

** The layout of divisions is as follows:

** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):

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/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* 
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
* 
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700/sqlite-src-3071700/test/threadtest3.c
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700/sqlite-doc-3071700/test/threadtest3.c

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

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%%Version

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<p><b>Public domain</b></p>
The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):

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<a href="http://en.wikipedia.org/wiki/Public_Domain">public domain</a>

the public domain and originals of
author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require
the public domain.  
their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

Found in path(s):

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

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#******************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
execsql {CREATE TABLE tbl1(t1 text)}
foreach word [this program is free software] {
   execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
execsql {
   CREATE TABLE t2(a);
   INSERT INTO t2 VALUES(1);
   INSERT INTO t2 VALUES(NULL);
   INSERT INTO t2 VALUES(345);
   INSERT INTO t2 VALUES(NULL);
   INSERT INTO t2 VALUES(67890);
   SELECT * FROM t2;
}
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
   set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
   lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
   set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
   lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1) ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
  execsql [SELECT coalesce(length(a),-1) FROM t2]
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
  execsql [SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1]
} {fr is pr so th}
do_test func-2.1 {
  execsql [SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1]
} {r s r o h}
do_test func-2.2 {
  execsql [SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1]
} {ee {} ogr ftw is}
do_test func-2.3 {
  execsql [SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1]
} {e s m e s}
do_test func-2.4 {
  execsql [SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1]
} {e s m e s}
do_test func-2.5 {
  execsql [SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1]
} {fr {} gr wa th}
do_test func-2.6 {
  execsql [SELECT substr(t1,2,20) FROM tbl1]
} {this software free program is}
do_test func-2.7 {
  execsql [DELETE FROM tbl1]
} {1 -1 3 -1 5}
do_test func-2.8 {
  execsql [SELECT a FROM t2]
} {1 {} 3 {} 6}
do_test func-2.9 {
  execsql [SELECT substr(a,1,1) FROM t2]
} {1 {} 3 {} 6}
do_test func-2.10 {
  execsql [SELECT substr(a,2,2) FROM t2]
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u1234"="u1234"} {
  # Put some UTF-8 characters in the database
  #
do_test func-3.0 {
    execsql [DELETE FROM tbl1]
foreach word "contains UTF-8 characters hiሴho" {
    execsql "INSERT INTO tbl1 VALUES(\'Sword\')"
}

execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"

do_test func-3.1 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}

do_test func-3.2 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}

do_test func-3.3 {
    execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"

do_test func-3.4 {
    execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"

do_test func-3.5 {
    execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"

do_test func-3.6 {
    execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"

do_test func-3.7 {
    execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"

do_test func-3.8 {
    execsql {DELETE FROM tbl1}
    foreach word {this program is free software} {
        execsql "INSERT INTO tbl1 VALUES(\'Sword\')"
    }
}

do_test func-3.9 {
}

do_test func-3.99 {
}

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {

} ;# End \u1234!=\u1234
do_test func-4.1 {
  execsql {
    CREATE TABLE t1(a,b,c);
    INSERT INTO t1 VALUES(1,2,3);
    INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
    INSERT INTO t1 VALUES(3,-2,-5);
  }
  catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}

ifcapable floatingpoint {
  do_test func-4.2 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
  } {1 {wrong number of arguments to function abs()}}
  do_test func-4.3 {
    catchsql {SELECT abs(b) FROM t1 ORDER BY a}
  } {0 {2 1.2345678901234 2}}
  do_test func-4.4 {
    catchsql {SELECT abs(c) FROM t1 ORDER BY a}
  } {0 {3 12345.6789 5}}
}

ifcapable !floatingpoint {
  if {[working_64bit_int]} {
    do_test func-4.3 {
      catchsql {SELECT abs(b) FROM t1 ORDER BY a}
    } {0 {2 12345678901234 2}}
  }
  do_test func-4.4 {
    catchsql {SELECT abs(c) FROM t1 ORDER BY a}
  } {0 {3 1234567890 5}}
}

do_test func-4.4.1 {
  execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}

do_test func-4.4.2 {
  execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0 0.0}
if capable floatingpoint {
  do_test func-4.5 {
    catchsql {SELECT round(a,b,c) FROM t1}
    | {1 {wrong number of arguments to function round()}}
  }
  do_test func-4.6 {
    catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
    | {0 {-2.0 1.23 2.0}}
  }
  do_test func-4.7 {
    catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
    | {0 {2.0 1.0 -2.0}}
  }
  do_test func-4.8 {
    catchsql {SELECT round(c) FROM t1 ORDER BY a}
    | {0 {3.0 -12346.0 -5.0}}
  }
  do_test func-4.9 {
    catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
    | {0 {3.0 -12345.68 -5.0}}
  }
  do_test func-4.10 {
    catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
    | {0 {x3.0y x-12345.68y x-5.0y}}
  }
  do_test func-4.11 {
    catchsql {SELECT round() FROM t1 ORDER BY a}
    | {1 {wrong number of arguments to function round()}}
  }
  execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
  | {1.0 nil 345.0 nil 67890.0}
  execsql {SELECT round(t1,2) FROM tbl1}
  | {0.0 0.0 0.0 0.0 0.0}
  execsql {SELECT typeof(round(5.1,1));}
  | {real}
  execsql {SELECT typeof(round(5.1));}
  | {real}
  execsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
  | {0 {-2.0 1.23 2.0}}

  # Verify some values reported on the mailing list.
  # Some of these fail on MSVC builds with 64-bit
  # long doubles, but not on GCC builds with 80-bit
  # long doubles.
  for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
    set x2 [expr 40223.0 + $i]
    do_test func-4.17.$i {
      execsql {SELECT round($x1);}
      $x2
    }
  }
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.05 + $i]
    set x2 [expr 40222.10 + $i]
    do_test func-4.18.$i {
        execsql {SELECT round($x1,1);}
    } $x2
}

do_test func-4.20 {
    execsql {SELECT round(40223.499999999999999);}
} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.499999999999999);}
} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.499999999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.5}
do_test func-4.24.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.5}
do_test func-4.25.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.4999999999}
do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.4999999999}
do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.4999999999}
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
    execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
    execsql {SELECT round(1234567890123.5);} {1234567890124.0}
}
do_test func-4.33 {
    execsql {SELECT round(1234567890123.45);} {1234567890124.0}
}
do_test func-4.34 {
    execsql {SELECT round(1234567890123.35,1);} {1234567890123.4}
}
do_test func-4.35 {
    execsql {SELECT round(1234567890123.445,2);} {1234567890123.45}
}
do_test func-4.36 {
    execsql {SELECT round(99999999999994.5);} {99999999999995.0}
}
do_test func-4.37 {
    execsql {SELECT round(9999999999999.55,1);} {9999999999999.6}
}
do_test func-4.38 {
    execsql {SELECT round(9999999999999.556,2);} {9999999999999.56}
}

# Test the upper() and lower() functions
#

do_test func-5.1 {
    execsql {SELECT upper(t1) FROM tbl1} {THIS PROGRAM IS FREE SOFTWARE}
}
do_test func-5.2 {
    execsql {SELECT lower(upper(t1)) FROM tbl1} {this program is free software}
}
do_test func-5.3 {
    execsql {SELECT upper(a), lower(a) FROM t2} {1 1 {} {} 345 345 {} {} 67890 67890}
    if capable !icu {
        do_test func-5.4 {
            catchsql {SELECT upper(a,5) FROM t2} {1 {wrong number of arguments to function upper()}}
        }
    }
}
do_test func-5.5 {
    catchsql {SELECT upper(*) FROM t2} {1 {wrong number of arguments to function upper()}}
}

# Test the coalesce() and nullif() functions
#

do_test func-6.1 {
    execsql {SELECT coalesce(a,'xyz') FROM t2} {1 xyz 345 xyz 67890}
}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a), 'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1), 'nil')}
} {nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2), 'nil')}
} {1}
do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL), 'nil')}
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
  execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), round(avg(a), 2), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
  execsql {
    SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
  }
} {z+67890abcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZJKLMNOP}
ifcapable tempdb {
  do_test func-8.3 {
    execsql {
      CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
      SELECT min('z+a[abedefghijklmnopqrstuvwxyzABCDEFGHJKLMNOP']) FROM t3;
    }
  } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHJKLMNOP}
  else {
    do_test func-8.3 {
      execsql {
        CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
        SELECT min('z+a[abedefghijklmnopqrstuvwxyzABCDEFGHJKLMNOP']) FROM t3;
      }
    } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHJKLMNOP}
  }
  do_test func-8.4 {
    execsql {
      SELECT max('z+a[abedefghijklmnopqrstuvwxyzABCDEFGHJKLMNOP']) FROM t3;
    }
  } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHJKLMNOP}

ifcapable compound {
  do_test func-8.5 {
    execsql {
      SELECT sum(x) FROM (SELECT '9223372036' \"854775807\" AS x
        UNION ALL SELECT -9223372036854775807)
    }
  } {0}
  do_test func-8.6 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' \"854775807\" AS x
        UNION ALL SELECT -9223372036854775807)
    }
  } {integer}
  do_test func-8.7 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' \"854775808\" AS x
        UNION ALL SELECT -9223372036854775807)
    }
  } {real}
}
ifcapable floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0.0 FROM (SELECT '9223372036' \"854775808\" AS x
        UNION ALL SELECT -9223372036854775807)
    }
  } {1}
}
ifcapable !floatingpoint {

do_test func-8.8 {
  execsql {
    SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
                         UNION ALL SELECT -9223372036850000000)
  }
} {1}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
} {1}
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
} {integer}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
} {1}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
} {blob}
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)),
          length(randomblob(2000))
  }
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().
#
ifcapable bloblit {
  do_test func-9.10 {
    execsql {SELECT hex(x'00112233445566778899aAbBeCdDeEfF'))
  } {00112233445566778899AABBCCDDEEFF}
} set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
    do_test func-9.11-utf16le {
        execsql [SELECT hex(replace('abcdefg','ef','12'))]
    } {6100620063006400310032006700}
    do_test func-9.12-utf16le {
        execsql [SELECT hex(replace('abcdefg','",',"12"))] 
    } {6100620063006400650066006700}
    do_test func-9.13-utf16le {
        execsql [SELECT hex(replace('aabcdefg','a','aaa'))] 
    } {610061006100610061006100650066006700}
} elseif {$encoding=="UTF-8"} {
    do_test func-9.11-utf8 {
        execsql [SELECT hex(replace('abcdefg','ef','12'))]
    } {61626364313267}
    do_test func-9.12-utf8 {
        execsql [SELECT hex(replace('abcdefg','",',"12"))] 
    } {61626364656667}
    do_test func-9.13-utf8 {
        execsql [SELECT hex(replace('aabcdefg','a','aaa'))] 
    } {616161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.

set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
    catchsql {
        SELECT testfunc(NULL,NULL);
    }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
    execsql {
        SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1234);
    }
} {1234}
do_test func-10.3 {
    execsql {
        SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL);
    }
} {1234}
ifcapable floatingpoint {
  do_test func-10.4 {
    execsql {
      SELECT testfunc(
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'double', 1.234
      );
    }
  } {1.234}

  do_test func-10.5 {
    execsql {
      SELECT testfunc(
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'int', 1234,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'double', 1.234,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'int', 1234,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'double', 1.234
      );
    }
  } {1.234}
}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
  execsql {
    SELECT sqlite_version(*);
  }
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
if {[db eval {PRAGMA encoding}]=="UTF-8"} {
  do_test func-12.1-utf8 {
    execsql {
      SELECT test_destructor('hello world'), test_destructor_count();
    }
  } {{hello world} 1}
} else {
  ifcapable {utf16} {
    do_test func-12.1-utf16 {
      execsql {
        SELECT test_destructor16('hello world'), test_destructor_count();
      }
    } {{hello world} 1}
  }
  do_test func-12.2 {
    execsql {
      SELECT test_destructor_count();
    }
  } {0}
  do_test func-12.3 {
    execsql {
      SELECT test_destructor('hello') || ' world'
    }
  } {{hello world}}
  do_test func-12.4 {
    execsql {
      SELECT test_destructor_count();
    }
  } {0}
  do_test func-12.5 {
    execsql {
      CREATE TABLE t4(x);
      INSERT INTO t4 VALUES(test_destructor('hello'));
      INSERT INTO t4 VALUES(test_destructor('world'));
      SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
    }
  } {{hello world}}
  do_test func-12.6 {
    execsql {
      SELECT test_destructor_count();
    }
  } {0}
  do_test func-12.7 {
    execsql {
      DROP TABLE t4;
    }
  }
}
do_test func-13.1 {
  execsql {
    SELECT test_auxdata('hello world');
  }
}
{0}

do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  }
}
{0}

do_test func-13.3 {
  execsql {
    SELECT test_auxdata('hello world') FROM t4;
  }
} {0 1}

do_test func-13.4 {
  execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
  }
} {{0 0} {1 1}}

do_test func-13.5 {
  execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
  }
} {{0 0} {1 0}}

do_test func-13.6 {
  execsql {
    SELECT test_auxdata('hello''world', a) FROM t4;
  }
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
  set DB [sqlite3_connection_pointer db]
  set sql "SELECT test_auxdata( ?, a ) FROM t4;"
  set STMT [sqlite3_prepare $DB $sql -1 TAIL]
  sqlite3_bind_text $STMT 1 hello\000 -1
  set res [list]
  while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
  }
lappend res [sqlite3_column_text $STMT 0]
}
lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
catch {
   db function [string repeat X 254] {return "hello"}
}
} {0}
do_test func-14.2 {
catch {
   db function [string repeat X 256] {return "hello"}
}
} {1}
do_test func-15.1 {
catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
catchsql {select test_error('this is the error message')}    
} {1 {this is the error message}}
do_test func-15.3 {
catchsql {select test_error('this is the error message',12)}  
} {1 {this is the error message}}
do_test func-15.4 {
   db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
   execsql {
      CREATE TABLE tbl2(a, b);
   }
   set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
   sqlite3_bind_blob $::STMT 1 abc 3
   sqlite3_step $::STMT
   sqlite3_finalize $::STMT
   execsql {
      SELECT quote(a), quote(b) FROM tbl2;
   }
} {X'616263' NULL}

# Correctly handle function error messages that include %.  Ticket #1354
#
do_test func-17.1 {
   proc testfunc1 args {error "Error %d with %s percents %p"}
   proc testfunc2 args {error "Error %d with %s percents %p"}
   proc testfunc3 args {error "Error %d with %s percents %p"}
   proc testfunc4 args {error "Error %d with %s percents %p"}
}
db function testfunc1 ::testfunc1
  catchsql {
    SELECT testfunc1(1,2,3);
  }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
  execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
  }
} {9902}
ifcapable floatingpoint {
  do_test func-18.2 {
    execsql {
      INSERT INTO t5 VALUES(0.0);
      SELECT sum(x) FROM t5;
    }
  } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
  execsql {
    DELETE FROM t5;
    SELECT sum(x), total(x) FROM t5;
  }
} {{} 0.0}
do_test func-18.4 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5;
  }
} {{} 0.0}
do_test func-18.5 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5;
  }
} {{} 0.0}
do_test func-18.6 {
  execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
  }
  } {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
# do_test func-18.10 {
execsql {
  CREATE TABLE t6(x INTEGER);
  INSERT INTO t6 VALUES(1);
  INSERT INTO t6 VALUES(1<<62);
  SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0
do_test func-18.11 {
execsql {
  SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
do_test func-18.12 {
catchsql {
  INSERT INTO t6 VALUES(1<<62);
  SELECT sum(x) - ((1<<62)*2.0+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
  SELECT total(x) - ((1<<62)*2.0+1) FROM t6
}
} 0.0
}
ifcapable !floatingpoint {
do_test func-18.12 {
catchsql {
  INSERT INTO t6 VALUES(1<<62);
  SELECT sum(x) - ((1<<62)*2+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
  SELECT total(x) - ((1<<62)*2+1) FROM t6
}
if {working_64bit_int} {
    do_test func-18.14 {
        execsql {
            SELECT sum(-9223372036854775805);
        }
    } -9223372036854775805
}
ifcapable compound&&subquery {
    do_test func-18.15 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT 9223372036854775807 AS x UNION ALL
                SELECT 10 AS x);
        }
    } {1 {integer overflow}}
    if ![working_64bit_int] {
        do_test func-18.16 {
            catchsql {
                SELECT sum(x) FROM
                    (SELECT 9223372036854775807 AS x UNION ALL
                    SELECT -10 AS x);
            }
        } {0 9223372036854775797}
    }
    do_test func-18.17 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT -9223372036854775807 AS x UNION ALL
                SELECT 10 AS x);
        }
    } {0 -9223372036854775797}
}
    do_test func-18.18 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT -9223372036854775807 AS x UNION ALL
                SELECT -10 AS x);
        }
    } {1 {integer overflow}}
    do_test func-18.19 {
        catchsql {
            SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
        }
    } {0 -1}
    do_test func-18.20 {
        catchsql {
            SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
        }
    } {0 -1}
SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
} {0 1}
do_test func-18.21 {
catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
} {0 -1}
do_test func-18.22 {
catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
} {0 1}
}
} ;# ifcapable compound&&subquery

# Integer overflow on abs()
#
if {[working_64bit_int]} {
do_test func-18.31 {
catchsql {
    SELECT abs(-9223372036854775807);
} {0 9223372036854775807}
do_test func-18.32 {
catchsql {
    SELECT abs(-9223372036854775807-1);
} {1 {integer overflow}}
}
do_test func-19.1 {
execsql {
    SELECT match(a,b) FROM t1 WHERE 0;
} {}
do_test func-19.2 {
catchsql {
    SELECT 'abc' MATCH 'xyz';
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
} {1 {unable to use function MATCH in the requested context}}
}
do_test func-19.4 {
catchsql {
    SELECT match(1,2,3);
}
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if {[!catch {db eval {SELECT soundex('hello')}}]} {
    set i 0
    foreach {name sdx} {
        euler E460
        EULEER E460
        Euler E460
        ellery E460
gauss G200
        ghosh G200
        hilbert H416
        Heilbronn H416
        knuth K530
        kant K530
        Lloyd L300
        LADD L300
        Lukasiewicz L222
        Lissajous L222
        A A000
        12345 ?000
    }
    incr i
    do_test func-20.$i {
        execsql {SELECT soundex($name)} $sdx
    }
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
catchsql {
    SELECT replace(1,2);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
catchsql {
    SELECT replace(1,2,3,4);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
execsql {
SELECT typeof(replace("This is the main test string", NULL, "ALT"));
}
} {null}
do_test func-21.4 {
execsql {
SELECT typeof(replace(NULL, "main", "ALT"));
}
} {null}
do_test func-21.5 {
execsql {
SELECT typeof(replace("This is the main test string", "main", NULL));
}
} {null}
do_test func-21.6 {
execsql {
SELECT replace("This is the main test string", "main", "ALT");
}
} {{This is the ALT test string}}
do_test func-21.7 {
execsql {
SELECT replace("This is the main test string", "main", "larger-main");
}
} {{This is the larger-main test string}}
do_test func-21.8 {
execsql {
SELECT replace("aaaaaaa", "a", "0123456789");
}
} {0123456789012345678901234567890123456789012345678901234567890123456789}
ifcapable tclvar {
do_test func-21.9 {
# Attempt to exploit a buffer-overflow that at one time existed
# in the REPLACE function.
set ::str "[string repeat A 29998]CC[string repeat A 35537]"
set ::rep [string repeat B 65536]
execsql {
SELECT LENGTH(REPLACE($::str, 'C', $::rep));
}
} [expr 29998 + 2*65536 + 35537]
}
# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {

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catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
excsq{SELECT trim(' hi ')};
} {{hi}}
do_test func-22.5 {
excsq{SELECT ltrim(' hi ')};
} {{hi}}
do_test func-22.6 {
excsq{SELECT rtrim(' hi ')};
} {\{ hi \} }
do_test func-22.7 {
excsq{SELECT trim(' hi ',"xyz")};
} {\{ hi \} }
do_test func-22.8 {
excsq{SELECT ltrim(' hi ',"xyz")};
} {\{ hi \} }
do_test func-22.9 {
excsq{SELECT rtrim(' hi ',"xyz")};
} {\{ hi \} }
do_test func-22.10 {
excsq{SELECT trim('xyxzy  hi  zzzy','xyz')};
} {\{ hi \} }
do_test func-22.11 {
excsq{SELECT ltrim('xyxzy  hi  zzzy','xyz')};
} {\{ hi \} }
do_test func-22.12 {
excsq{SELECT rtrim('xyxzy  hi  zzzy','xyz')};
} {\{ xyxzy  hi  \} }
do_test func-22.13 {
excsq{SELECT trim('',""')};
} {\{ hi \} }
if {[db one {PRAGMA encoding}] == "UTF-8"} {
do_test func-22.14 {
excsq{SELECT hex(trim(x'c280e1bfbcfbf6869','x'6162e1bfbcfc280'))} ;
} {F48FBF6869}
do_test func-22.15 {
excsq{SELECT hex(trim(x'6869c280e1bfbcfbf61','x'6162e1bfbcfc280f48fbcfb'))} ;
} {6869}
do_test func-22.16 {
excsq{SELECT hex(trim(x'ceb1ceb2ceb3','x'ceb1'))};
} {CEB2CEB3}
}
execsql {SELECT typeof(trim(NULL));} {null}
do_test func-22.21 {
execsql {SELECT typeof(trim(NULL,'xyz'));} {null}
do_test func-22.22 {
execsql {SELECT typeof(trim('hello',NULL));} {null}
}

# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
do_test func-23.1 {
    sqlite3_create_aggregate db
    execsql {
        SELECT legacy_count() FROM t6;
    } {3}
}

# The group_concat() function.
#
do_test func-24.1 {
execsql {
    SELECT group_concat(t1) FROM tbl1
} {this,program,is,free,software}
do_test func-24.2 {
execsql {
    SELECT group_concat(t1,' ') FROM tbl1
} {{this program is free software}}
do_test func-24.3 {
execsql {
    SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
} {{}}
do_test func-24.5 {
execsql {
    SELECT group_concat(t1,NULL) FROM tbl1
} {this program is free software}
do_test func-24.6 {
execsql {
  SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
}
} {BEGIN-this,program,is,free,software}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
  append midargs ,'/i'
  append midres '/i'
  set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}"
  set sql "SELECT md5sum(t1$midargs) FROM tbl1"
  do_test func-24.7.$i {
    db eval $::sql
  } $result
}
#
# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
  }
} {.program.is.free,software}
do_test func-24.9 {
  execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
  }
} {,,software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
  }
} {program.is.free,software}
do_test func-24.11 {
execsql {
  SELECT group_concat(CASE WHEN t1='software' THEN null ELSE t1 END) FROM tbl1
}
} {software}
do_test func-24.12 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ''
    WHEN 'program' THEN null ELSE t1 END) FROM tbl1
  }
} {is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
  execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
  abuse_create_function db
}
}

# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
  set a {}
  for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
    lappend a $i
  }
  db eval ">
    SELECT
      nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
      ([join $a ,]);
  "
}
}
do_test func-26.3 {
  set a {}
  for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
    lappend a $i
  }
  catchsql ">
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {

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catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
db eval {
  CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
}
catchsql {
  INSERT INTO t28(x) VALUES(1);
}
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
db eval {
  CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
  INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
  INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
  INSERT INTO t29 VALUES(5, "hello", 7);
}
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null integer 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}
do_test func-29.3 {
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null integer real integer blob integer text}
do_test func-29.4 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x>100} {set x many}
    set x
} {many}
}
do_test func-29.5 {
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT sum(length(x)) FROM t29}
} {100009}
do_test func-29.6 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
} {1}
do_execsql_test func-30.1 {SELECT unicode('\$')} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2')}]} 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC')}]} 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {¢€}]
for {set i 1} {$i<0xd800} {incr i 13} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
    if {$i==0xfeff} continue
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

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

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
#
#
*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
# # $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commercial product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
a  a
aaron  aaron
abaissiez  abaissiez
abandon  abandon
abandoned  abandon
abase  abas
abash  abash
abate  abat
abated  abat
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yells  yell
yelping  yelp
yeoman  yeoman
yeomen  yeomen
yerk  yerk
yes  ye
yesterday  yesterdai
yesterdays  yesterdai
yesternight  yesternight
yesty  yesti
yet  yet
yew  yew
yield  yield
yield  yield
yielded  yield
yelder  yielder
yielders  yielder
yielding  yield
yields  yield
yok  yok
yoke  yoke
yoked  yoke
yokefellow  yokefellow
yokes  yoke
yoketh  yoketh
yon  yon
# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {

yond       yond
yonder     yonder
yongrey    yongrei
yore       yore
yorick     yorick
york       york
yorkists   yorkist
yorks      york
yorkshire  yorkshir
you        you
young      young
younger    younger
youngest   youngest
youngling  youngl
younglings youngl
youngly    youngli
younger    younker
your       your
yours      your
yourself   yourself
yourselves yourself
youth      youth
youthful   youth
youths     youth
youtli     youtli
zannies    zani
zany       zani
zeal       zeal
zealous    zealou
zeals      zeal
zed        zed
zenelophon zenelophon
zenith     zenith
zephyrs    zephyr
zir        zir
zo         zo
zodiac     zodiac
zodics     zodiac
zone       zone
zounds     zound
ziall      ziall
zwagger    zwagger

}
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
execsql {
    DELETE FROM t1_term;
    DELETE FROM t1_content;
    INSERT INTO t1(word) VALUES($pfrom);
    SELECT term FROM t1_term;
} $pto
}

finish_test

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

<a href="copyright.html">public domain</a>. No claim of ownership is made

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

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

/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: {configuration option}
 **
 ** These constants are the available integer configuration options that can be passed as the first argument to the [sqlite3_config()] interface.
 */
New configuration options may be added in future releases of SQLite. Existing configuration options might be discontinued. Applications should check the return code from [sqlite3_config()] to make sure that the call worked. The [sqlite3_config()] interface will return a non-zero [error code] if a discontinued or unsupported configuration option is invoked.

**<dl>
**
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. This option sets the [threading mode] to Single-thread. In other words, it disables all muting and puts SQLite into a mode where it can only be used by a single thread. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to change the [threading mode] from its default value of Single-thread and so [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD configuration option.</dd>
**
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. This option sets the [threading mode] to Multi-thread. In other words, it disables muting on [database connection] and [prepared statement] objects. The application is responsible for serializing access to [database connections] and [prepared statements]. But other mutexes are enabled so that SQLite will be safe to use in a multi-threaded environment as long as no two threads attempt to use the same [database connection] at the same time. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Multi-thread [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. This option sets the [threading mode] to Serialized. In other words, this option enables all mutexes including the recursive mutexes on [database connection] and [prepared statement] objects. In this mode (which is the default when SQLite is compiled with [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access to [database connections] and [prepared statements] so that the application is free to use the same [database connection] or the same [prepared statement] in different threads at the same time. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Serialized [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. ^(When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
** <ul>
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status()]
** </ul>^)
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** scratch memory. There are three arguments: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N). The sz
** argument must be a multiple of 16.
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So
** N should be set to twice the expected maximum number of threads.
** ^SQLite will never require a scratch buffer that is more than 6
** times the database page size. ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.</dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** the database page cache with the default page cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
** to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** ** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines,)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** ** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(This option sets the
** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** ** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.)^  ^SQLite makes a copy of the
** object and uses it for page cache memory allocations. </dd>
**
** ** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object. SQLite copies of the current
** page cache implementation into that object.)^ </dd>
**
** ** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
**}
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()](https://www.sqlite.org/c3ref/log.html) call and is intended to be a [result code](https://www.sqlite.org/c3ref/errcodes.html) or an
** [extended result code](https://www.sqlite.org/c3ref/errcodes.html). ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()](https://www.sqlite.org/c3ref/snprintf.html).
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>

**

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd> This option takes a single argument of type int. If non-zero, then
** URI handling is globally enabled. If the parameter is zero, then URI handling
** is globally disabled. If URI handling is globally enabled, all filenames
** passed to [sqlite3_open()](https://www.sqlite.org/c3ref/open.html), [sqlite3_open_v2()](https://www.sqlite.org/c3ref/open2.html), [sqlite3_open16()](https://www.sqlite.org/c3ref/open16.html) or
** specified as part of [ATTACH](https://www.sqlite.org/c3ref/attach.html) commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI](https://www.sqlite.org/c3ref/flags2.html) flag is set when the database
** connection is opened. If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI](https://www.sqlite.org/c3ref/config.html) symbol defined.

**

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd> This option takes a single integer argument which is interpreted as
** a boolean in order to enable or disable the use of covering indices for
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN](https://www.sqlite.org/c3ref/config.html) compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** malfunction when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.

**

** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>

**

** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG](https://www.sqlite.org/c3ref/config.html) pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the

---

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fourth parameter. If the fourth parameter is 0, then the database connection
passed as the second argument has just been opened. The third argument
points to a buffer containing the name of the main database file. If the
fourth parameter is 1, then the SQL statement that the third parameter
points to has just been executed. Or, if the fourth parameter is 2, then
the connection being passed as the second parameter is being closed. The
third parameter is passed NULL In this case. An example of using this
configuration option can be seen in the "test_sqllog.c" source file in
the canonical SQLite source tree.</dd>
**
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
**
</dt></dd><dt>SQLITE_CONFIG_MMAP_SIZE

** SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** PRAGMA mmap_size) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNlVkuI7/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and is thus free for

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

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
This file implements regression tests for SQLite library. The focus of this script is testing the FTS3 module.

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.
# do_test fts3ac-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent”s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent”s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent”s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent”s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction Volume Hedged
1      - 24990
2500 - 54995000
5500 - 64996000');
        INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI: If it”s ok with everyone”s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o’clock hour just let me know; I'll
be more than willing to stay.’;

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
' louise.kitchen@enron.com', '<Concur Expense Document> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/');
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work
request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com,
scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rt/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com',
'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW:
Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well.

Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toe_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..stefes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.
Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know.

Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

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- OUTAGE.dbf
- 111201R.xls
- 111201.xls

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch. Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1- Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daaisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', '
Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; LS HPL LSK IC 30.000 / Enron

');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 3681
practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works. ');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295);
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "''Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhh.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

'):

Thanks

-------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000

08:39 AM -------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT
Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal :    East Northeast
Dick Jenkins:   East Marketeast

WK

')

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave')

I saw it. Very interesting.

Vince
"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mrmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
Dear SmartReminders Member,

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here. 

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', ', The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA''s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. 'Thanks! Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name:   Houston Cellular 8-11-01
Report Date:   12/13/01
Report ID:     594D37C9ED2111D5B452
Submitted On:  12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com;', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.'
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch);

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

------------ Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,
These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com','dave.samuels@enron.com','EOL-Accenture Deal Sheet','Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters of intent
  Review Enron asset base for potential reuse/licensing
  Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com','thomas.martin@enron.com','Re: Guadalupe Power Partners LP','---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution’s Capacity Available for Release - Sum', '----------------------
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM -----------------------------
agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " " - *Koch, Kent" <kkoch@nisource.com>, " " - *Millar, Debra" <dmillar@nisource.com>, " " - *Burke, Lynn" <lburke@nisource.com>
c: " " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,' , 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit. ');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net, ' , 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rimichaelis@hormel.com, ', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', ')
Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

';

INSERT INTO email(from,[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email(from,[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');

INSERT INTO email(from,[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I’ll get it done today.

DG    3-9573

From: Bryce Baxter                          06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King
If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey

INSERT INTO email(from, to, subject, body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the attached.

ds

');

INSERT INTO email(from, to, subject, body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

INSERT INTO email(from, to, subject, body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonna@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Re: Tennessee Buy - Louis Dreyfus
Beverly - once again thanks so much for your help on this.

Please contact me if you have any questions regarding last week's prices.

Thank you,
Karolyn Criado
3-9441

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

Gregg

RE: Constellation TC 5-7-01
Gregg

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 3693
I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy;
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

wallgorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the EnronWest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', 'From: Grace, Rebecca M.'
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com',','Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

Thanks

chris
x31666)

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490);

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)
Chairperson: Outlook Migration Team

Detailed Description:

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.: 0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.);

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.

Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:
---- Load Schedule ----

$\$\$ \text{Variance found in table tblLoads.}$

- Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
- \text{TRANS\_TYPE: FINAL}
- \text{LOAD\_ID: PGE4}
- \text{MKT\_TYPE: 2}
- \text{TRANS\_DATE: 4/22/01}
- \text{SC\_ID: EPMI}

');

\text{INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.'));

\text{INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');}

\text{INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
\text{COMMIT;}
}
\)}
do_test fts3ac-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {40}
do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
  }
} {}
do_test fts3ac-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts3ac-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child”. But only
# 3 of them are paired with "product”. Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
# do_test fts3ac-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
# do_test fts3ac-4.1 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'subject:gas reminder'
}
do_test fts3ac-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}
do_test fts3ac-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
}
do_test fts3ac-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
}
do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
}
do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
}
do_test fts3ac-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
  }
}
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with:

```sql
do_test fts3ac-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{pete.davis@enron.com,...
3; No ancillary schedules awarded detected in Load schedule.

LOG...
```

# Combinations of AND and OR operators:

```sql
# do_test fts3ac-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@enron.com,...
31 Keystone Receipts
15 Questar Pipeline
40 Rockies...
```

```sql
# Test a problem reported on the mailing list.

```sql
do_test fts3ac-6.1 {
  execsql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES('', 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
  execsql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
}
find {1003}

finish_test

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

<html>
<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">
Copyright Release for<br>
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</h1>

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b) Give prominent notice with the combined library of the fact
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1.223 jaxen 1.1.2-3

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1.224 bouncycastle-fips 1.0.3

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 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 * <p>
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 * </p>
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java
1.225 axis2-xmlbeans 1.7.9
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1.226 jaxp-api 1.4.2
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<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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

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

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

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

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

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

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

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

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

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/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

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

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

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

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

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
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Nathan Neulinger EMail: nneul@um... University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipv6.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypicide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypicide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypicide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

-a

--------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); Mon, 1 Oct 2007 12:26:03 -0500
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-a

1.231 slf4j-log4j 1.7.2

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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with the Library, with the complete machine-readable `work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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specified in Subsection 6a, above, for a charge no more
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(This file is under construction.)

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.
Steve Chamberlain made gas able to generate listings.

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

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

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

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

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

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

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

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

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

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```
printf("%s", png_get_permissions(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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DOCUMENTATION ROADMAP

This file contains the following sections:

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

Other documentation files in the distribution are:
User documentation:
install.doc        How to configure and install the IJG software.
usage.doc          Usage instructions for cjpeg, djpeg, jpegtran,
                   rdjpgcom, and wrjpgcom.
*.1                Unix-style man pages for programs (same info as usage.doc).
wizard.doc         Advanced usage instructions for JPEG wizards only.
change.log         Version-to-version change highlights.

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

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

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

OVERVIEW
========

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

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

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

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

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

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

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

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

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

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

in existence, and we highly recommend it.

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

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

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.
The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

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

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

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

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

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.
A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

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

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

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

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

TO DO
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The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

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

1.242 make 3.82-23.el7

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1.248 geronimo-stax-api 1.0.1

1.249 lzo 2.06

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

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

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

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
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10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

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

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

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

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

That's all there is to it!
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Version 2.1, February 1999

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

Preamble

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

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

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

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

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

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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1.258 zlib 1.2.8

1.258.1 Available under license:

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

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1.259 audit 2.8.4 4.el7
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yassl     http://www.yassl.com/

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c-ares    http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib      http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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fbopenssl

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Used By: Xalan's build process: java/build.xml and test/build.xml

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Used By: XSLTC component of xml-xalan/java

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jseward@bzip.org
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*/
/**
 * <p>
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 * </p>
 */
/**
 * <p>
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 * </p>
 * <p>
 * AWS SDK for Java performs a Base64 encoding on this field before sending this request to AWS service by
default.
 * Users of the SDK should not perform Base64 encoding on this field.
 * </p>
 * <p>
 * Warning: ByteBuffers returned by the SDK are mutable. Changes to the content or position of the byte buffer
will
 * be seen by all objects that have a reference to this object. It is recommended to call ByteBuffer.duplicate() or
 * ByteBuffer.asReadOnlyBuffer() before using or reading from the buffer. This behavior will be changed in a
future
 * major version of the SDK.
 * </p>
 * <p>
 * @param plaintext
 *        Decrypted plaintext data. This value may not be returned if the customer master key is not available or if
 *        you didn't have permission to use it.
 * </p>
/**
 * <p>
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 * </p>
 * <p>
 * {@code ByteBuffer}s are stateful. Calling their {@code get} methods changes their {@code position}. We
recommend
 * using [@link java.nio.ByteBuffer#asReadOnlyBuffer()]{@code asReadOnlyBuffer()} to create a read-only view of the buffer with an
independent
 * [@code position]{@code position}, and calling [@code get] methods on this rather than directly on the returned [@code
ByteBuffer].
 * Doing so will ensure that anyone else using the [@code ByteBuffer] will not be affected by changes to the
 * [@code position].
 * </p>
 * @return Decrypted plaintext data. This value may not be returned if the customer master key is not available or
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  jar/com/amazonaws/services/kms/model/DecryptResult.java

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1.271 linux-kernel 3.10.0 1062.18.1.el7

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

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

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Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.17
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2021-05-14T08:20:36Z
X-Builder: Maven 3.8.1
X-Compile-Source: 1.4
X-Compile-Target: 1.4
Bnd-LastModified: 1620980458866
Bundle-Description: XStream is a serialization library from Java objects to XML and back.
Bundle-DocURL: http://x-stream.github.io
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core
Bundle-SymbolicName: xstream
Bundle-Vendor: XStream
Bundle-Version: 1.4.17
works.xstream.persistence;version="1.4.17",com.thoughtworks.xstream.security;version="1.4.17"

JAVA_1_5_HOME: /opt/sun-jdk-1.5.0.22
JAVA_1_6_HOME: /opt/sun-jdk-1.6.0.45
JAVA_1_7_HOME: /opt/oracle-jdk-bin-1.7.0.80
JAVA_1_8_HOME: /opt/oracle-jdk-bin-1.8.0.202
JAVA_9_HOME: /opt/oracle-jdk-bin-9.0.4
Tool: Bnd-2.4.1.201501161923

Found in path(s):
* /opt/cola/permits/1166458259_1621426611.06/0/xstream-1-4-17.jar/META-INF/MANIFEST.MF

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

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analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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of all derivatives of our free software and of promoting the sharing
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS
0. Definitions.

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

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

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

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

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

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

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

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


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

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

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

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

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

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

2. Basic Permissions.

All rights granted under this License are granted for the term of
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keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

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

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

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

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

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

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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  jar/org/apache/commons/discovery/tools/PropertiesHolder.java
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  jar/org/apache/commons/discovery/jdk/JDKHooks.java
  */opt/cola/permits/1136044975_1613664860.94/0/commons-discovery-0-2-sources-1-
  jar/org/apache/commons/discovery/jdk/JDK11Hooks.java
  */opt/cola/permits/1136044975_1613664860.94/0/commons-discovery-0-2-sources-1-
  jar/org/apache/commons/discovery/jdk/JDK12Hooks.java

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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/ast/IntLiteral.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/ast/LongLiteral.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/SpelEvaluationException.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-jar/org/springframework/expression/spel/SpelMessage.java
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 */

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#pragma once

#define COMPAT_POLL_H_
#define POLLIN 0x0001
#define POLLOUT 0x0004

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

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNDNM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

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

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

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   * @version 3.0 (December 2000)
   *
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   *
   * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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 */

#ifndef HAVE_SETRESGID
int	setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int	setresuid(uid_t, uid_t, uid_t);
#endif
/*
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 *
 */
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
/* Define required functions to mimic a POSIX look and feel */
#define WEXITSTATUS(w) \( int \)\{ (WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1 \}
#define WTERMSIG(w) \( int \)\{ (WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1 \}
#define WCOREFLAG 0x80
#define WCOREDUMP(w) \( int \)\{ (_W_INT(w)) & WCOREFLAG \}
/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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1.322 encoder-jsp 1.2.2

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1.323 cyrus-sasl 2.1.26

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* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-jar/io/netty/resolver/AddressResolver.java
* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-jar/io/netty/resolver/RoundRobinInetSocketAddressResolver.java

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* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-
jar/io/netty/resolver/AddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-jar/io/netty/resolver/NameResolver.java
* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-jar/io/netty/resolver/NoopAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-jar/io/netty/resolver/package-info.java
* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-jar/io/netty/resolver/SimpleNameResolver.java

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1.330 libnl3 3.200

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Agreement version 2.4

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

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1.333 e2fsprogs 1.42.9 13.el7

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This package was put together by Yann Dirson <dirson@debian.org>,
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*/
Index: tdsa/tdb.c
===================================================================
--- tdsa.orig/tdb.c
+++ tdsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371

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

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

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

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

image:$(BSDLIB_MYDIR)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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Theodore Ts'o
23-June-2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.340 bc 1.06
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/*

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#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h> /* Prototypes needed for external utility routines. */
#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory
PROTOTYPE(void rt_warn, (char *mesg ....));
PROTOTYPE(void rt_error, (char *mesg ....));
PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_
bc_num _one_
bc_num _two_

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */
bc_num
bc_new_num (length, scale)
   int length, scale;
{
   bc_num temp;

   if (_bc_Free_list != NULL) {
      temp = _bc_Free_list;
      _bc_Free_list = temp->n_next;
   } else {
      temp = (bc_num) malloc (sizeof(bc_struct));
      if (temp == NULL) bc_out_of_memory();
   }
   temp->n_sign = PLUS;
   temp->n_len = length;
   temp->n_scale = scale;
   temp->n_refs = 1;
   temp->n_ptr = (char *) malloc (length+scale);
   if (temp->n_ptr == NULL) bc_out_of_memory();
   temp->n_value = temp->n_ptr;
   memset (temp->n_ptr, 0, length+scale);
   return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only
   frees the storage if reference count is zero. */

void
bc_free_num (num)
   bc_num *num;
{
   if (*num == NULL) return;
   (*num)->n_refs--;
   if ((*num)->n_refs == 0) {
      if ((*num)->n_ptr == NULL) return;
      free ((char *) ((*num)->n_ptr));
      memset ((char *) ((*num)->n_ptr), 0, (*num)->n_scale);
      (*num)->n_value = NULL;
      (*num)->n_ptr = NULL;
      (*num)->n_sign = 0;
      (*num)->n_len = 0;
      (*num)->n_scale = 0;
      (*num)->n_refs = 0;
      if (*num == bc_zero) {
         (*num) = bc_zero;
      } else if (*num == bc_one) {
         (*num) = bc_one;
      } else if (*num == bc_two) {
         (*num) = bc_two;
      } else {
         bc_free_num (*num);
      }
      free (*num);
      (*num) = NULL;
   } else {
      (*num) = NULL;
   }
}

/* error routine */
PROTOTYPE(void rt_error, (char *mesg ....));

PROTOTYPE(void out_of_memory, (void));
free ((*num)->n_ptr);
(*num)->n_next = _bc_Free_list;
_bc_Free_list = *num;
}
*num = NULL;
}

/* Initialize the number package! */
void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_  = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_  = bc_new_num (1,0);
    _two_->n_value[0] = 2;
}

/* Make a copy of a number! Just increments the reference count! */
bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}

/* Initialize a number NUM by making it a copy of zero. */
void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
.bc_rm_leading_zeros just moves the data "value" pointer to the
correct place and adjusts the length. */
static void
_bc_rm_leading_zeros (num)
    bc_num num;
/* We can move n_value to point to the first non zero digit! */
while (*num->n_value == 0 && num->n_len > 1) {
    num->n_value++;
    num->n_len--;
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just compare the magnitudes. */

static int _bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
    char *n1ptr, *n2ptr;
    int count;

    /* First, compare signs. */
    if (use_sign && n1->n_sign != n2->n_sign)
        {
            if (n1->n_sign == PLUS)
                return (1); /* Positive N1 > Negative N2 */
            else
                return (-1); /* Negative N1 < Positive N1 */
        }

    /* Now compare the magnitude. */
    if (n1->n_len != n2->n_len)
        {
            if (n1->n_len > n2->n_len)
                {
                    /* Magnitude of n1 > n2. */
                    if (!use_sign || n1->n_sign == PLUS)
                        return (1);
                    else
                        return (-1);
                }
            else
                {
                    /* Magnitude of n1 < n2. */
                    if (!use_sign || n1->n_sign == PLUS)
                        return (-1);
                    else
                        return (1);
                }
        }
/* If we get here, they have the same number of integer digits. 
check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN(n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
                /* Magnitude of n1 > n2. */
                if (!use_sign || n1->n_sign == PLUS)
return (1);
else
    return (-1);
}

else
{
    for (count = n2->n_scale-n1->n_scale; count>0; count--)
    
        if (*n2ptr++ != 0)
        
            /* Magnitude of n1 < n2. */

        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    
}

/* They must be equal! */
return (0);

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
    return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{

int count;
char *nptr;

/* Quick check. */
if (num == _zero_) return TRUE;

/* Initialize */
count = num->n_len + num->n_scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0)
    return FALSE;
else
    return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
   Specifically, all but the last digit is 0 and the last digit is 1.
   Last digit is defined by scale. */
char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

    /* Initialize */
count = num->n_len + scale;
nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0 && (count != 1 || *--nptr != 1))
        return FALSE;
    else
        return TRUE;
}
/* Perform addition: N1 is added to N2 and the value is returned. The signs of N1 and N2 are ignored.
SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
  bc_num n1, n2;
  int scale_min;
{
  bc_num sum;
  int sum_scale, sum_digits;
  char *n1ptr, *n2ptr, *sumptr;
  int carry, n1bytes, n2bytes;
  int count;

  /* Prepare sum. */
  sum_scale = MAX (n1->n_scale, n2->n_scale);
  sum_digits = MAX (n1->n_len, n2->n_len) + 1;
  sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

  /* Zero extra digits made by scale_min. */
  if (scale_min > sum_scale)
    {
      sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
      for (count = scale_min - sum_scale; count > 0; count--)
        *sumptr++ = 0;
    }

  /* Start with the fraction part. Initialize the pointers. */
  n1bytes = n1->n_scale;
  n2bytes = n2->n_scale;
  n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
  n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
  sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

  /* Add the fraction part. First copy the longer fraction. */
  if (n1bytes != n2bytes)
    {
      if (n1bytes > n2bytes)
        while (n1bytes>n2bytes)
          { *sumptr-- = *n1ptr--; n1bytes--; }
      else
        while (n2bytes>n1bytes)
          { *sumptr-- = *n2ptr--; n2bytes--; }
    }

  /* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
    {
        carry = 0;
        sumptr--;  
n1bytes--;  
n2bytes--;  
    }
}
/* Now add carry the longer integer part. */
if (n1bytes == 0)
{
    n1bytes = n2bytes;  n1ptr = n2ptr;  
}
while (n1bytes-- > 0)
{
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
    {
        carry = 0;
        sumptr--;  
    }
}
/* Set final carry. */
if (carry == 1)
    *sumptr += 1;
/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;

/* Perform subtraction: N2 is subtracted from N1 and the value is returned. The signs of N1 and N2 are ignored. Also, N1 is assumed to be larger than N2. SCALE_MIN is the minimum scale of the result. */
static bc_num
_bc_do_sub (n1, n2, scale_min)
  bc_num n1, n2;
  int scale_min;
{
  bc_num diff;
  int diff_scale, diff_len;
  int min_scale, min_len;
  char *n1ptr, *n2ptr, *diffptr;
  int borrow, count, val;

  /* Allocate temporary storage. */
  diff_len = MAX (n1->n_len, n2->n_len);
  diff_scale = MAX (n1->n_scale, n2->n_scale);
  min_len = MIN  (n1->n_len, n2->n_len);
  min_scale = MIN (n1->n_scale, n2->n_scale);
  diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

  /* Zero extra digits made by scale_min. */
  if (scale_min > diff_scale)
    
      diffptr = (char *) (diff->n_value + diff_len + diff_scale);
      for (count = scale_min - diff_scale; count > 0; count--)
        *diffptr++ = 0;
    
  /* Initialize the subtract. */
  n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
  n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
  diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

  /* Subtract the numbers. */
  borrow = 0;

  /* Take care of the longer scaled number. */
  if (n1->n_scale != min_scale)
    
      /* n1 has the longer scale */
      for (count = n1->n_scale - min_scale; count > 0; count--)
        *diffptr-- = *n1ptr--;
    
  else
    
      /* n2 has the longer scale */
      for (count = n2->n_scale - min_scale; count > 0; count--)
        
          val = - *n2ptr-- - borrow;


if (val < 0)
{
    val += BASE;
    borrow = 1;
}
else
    borrow = 0;
*diffptr-- = val;
}

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;
    *diffptr-- = val;
}

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;
/* Here is the full subtract routine that takes care of negative numbers.
N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)
  bc_num n1, n2, *result;
  int scale_min;
{
  bc_num diff = NULL;
  int cmp_res;
  int res_scale;

  if (n1->n_sign != n2->n_sign)
  {
    diff = _bc_do_add (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
  }
  else
  {
    /* subtraction must be done. */
    /* Compare magnitudes. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
    switch (cmp_res)
    {
    case -1:
      /* n1 is less than n2, subtract n1 from n2. */
      diff = _bc_do_sub (n2, n1, scale_min);
      diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
      break;
    case  0:
      /* They are equal! return zero! */
      res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
      diff = bc_new_num (1, res_scale);
      memset (diff->n_value, 0, res_scale+1);
      break;
    case  1:
      /* n2 is less than n1, subtract n2 from n1. */
      diff = _bc_do_sub (n1, n2, scale_min);
      diff->n_sign = n1->n_sign;
      break;
    }
  }

  /* Clean up and return. */
  bc_free_num (result);
  *result = diff;
void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)
    {
        sum = _bc_do_add (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);  /* Compare magnitudes. */
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */
            sum = _bc_do_sub (n2, n1, scale_min);
            sum->n_sign = n2->n_sign;
            break;
        case  0:
            /* They are equal! return zero with the correct scale! */
            res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
            sum = bc_new_num (1, res_scale);
            memset (sum->n_value, 0, res_scale+1);
            break;
        case  1:
            /* n2 is less than n1, subtract n2 from n1. */
            sum = _bc_do_sub (n1, n2, scale_min);
            sum->n_sign = n1->n_sign;
            break;
        }
    }

    /* Clean up and return. */
    bc_free_num (result);
    *result = sum;
}
/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
   int length, scale;
   char *value;
{
   bc_num temp;

   if (_bc_Free_list != NULL) {
      temp = _bc_Free_list;
      _bc_Free_list = temp->n_next;
   } else {
      temp = (bc_num) malloc (sizeof(bc_struct));
      if (temp == NULL) bc_out_of_memory ();
   }
   temp->n_sign = PLUS;
   temp->n_len = length;
   temp->n_scale = scale;
   temp->n_refs = 1;
   temp->n_ptr = NULL;
   temp->n_value = value;
   return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
   int full_scale)
{
   char *n1ptr, *n2ptr, *pvptr;
   char *n1end, *n2end;/* To the end of n1 and n2. */
   int indx, sum, prodlen;

   prodlen = n1len+n2len+1;

   *prod = bc_new_num (prodlen, 0);
n1end = (char *) (n1->n_value + n1len - 1);
n2end = (char *) (n2->n_value + n2len - 1);
pvptr = (char *) ((*prod)->n_value + prodlen - 1);
sum = 0;

/* Here is the loop... */
for (indx = 0; indx < prodlen-1; indx++)
{
    n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
    n2ptr = (char *) (n2end - MIN(indx, n2len-1));
    while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
        sum += *n1ptr-- * *n2ptr++;
    *pvptr-- = sum % BASE;
    sum = sum / BASE;
}
*pvptr = sum;

/* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must be larger that what is being subtracted. Also, accum and val must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
    signed char *accp, *valp;
    int  count, carry;
    count = val->n_len;
    if (val->n_value[0] == 0)
        count--;
    assert (accum->n_len+accum->n_scale >= shift+count);

    /* Set up pointers and others */
    accp = (signed char *)(accum->n_value + accum->n_len + accum->n_scale - shift - 1);
    valp = (signed char *)(val->n_value + val->n_len - 1);
    carry = 0;
    if (sub) {
        /* Subtraction, carry is really borrow. */
        while (count--)
        {
            *accp -= *valp-- + carry;
            if (*accp < 0) {
                carry = 1;
                *accp-- += BASE;
            }
        }
    }
/* Recursive divide and conquer multiply algorithm. 
Based on 
Let \( u = u_0 + u_1 (b^n) \) 
Let \( v = v_0 + v_1 (b^n) \) 
Then \( uv = (B^{2n}+B^n)u_1v_1 + B^n(u_1-u_0)(v_0-v_1) + (B^n+1)u_0v_0 \) 

\( B \) is the base of storage, number of digits in \( u_1,u_0 \) close to equal. */

static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod, int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;

    /* Addition */
    while (count--)
    {
        *accp += *valp-- + carry;
        if (*accp > (BASE-1))
        {
            carry = 1;
            *accp-- -= BASE;
        } else {
            carry = 0;
            accp--;
        }
    }
    while (carry)
    {
        *accp += carry;
        if (*accp > (BASE-1))
        {
            carry = 1;
            *accp-- -= BASE;
        } else {
            carry = 0;
            accp--;
        }
    }

    /* Addition */
    while (count--)
    {
        *accp -= carry;
        if (*accp < 0)
        {
            *accp-- += BASE;
            carry = 0;
        } else {
            carry = 0;
            accp--;
        }
    }
    while (carry)
    {
        *accp -= carry;
        if (*accp > (BASE-1))
        {
            carry = 1;
            *accp-- -= BASE;
        } else {
            carry = 0;
            accp--;
        }
    }
bc_num m1, m2, m3, d1, d2;
int n, prodlen, m1zero;
int d1len, d2len;

/* Base case? */
if ((ulen+vlen) < mul_base_digits
    || ulen < MUL_SMALL_DIGITS
    || vlen < MUL_SMALL_DIGITS ) {
    _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
    return;
}

/* Calculate n -- the u and v split point in digits. */
n = (MAX(ulen, vlen)+1) / 2;

/* Split u and v. */
if (ulen < n) {
    u1 = bc_copy_num (_zero_);
    u0 = new_sub_num (ulen, 0, u->n_value);
} else {
    u1 = new_sub_num (ulen-n, 0, u->n_value);
    u0 = new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
    v1 = bc_copy_num (_zero_);
    v0 = new_sub_num (vlen, 0, v->n_value);
} else {
    v1 = new_sub_num (vlen-n, 0, v->n_value);
    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
}
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */
bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;
/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
    _bc_shift_addsub (*prod, m3, n, 0);
    _bc_shift_addsub (*prod, m3, 0, 0);
    _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine. N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)). */

void
bc_multiply (n1, n2, prod, scale)
bc_num n1, n2, *prod;
int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

    /* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

    /* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

    /* Assign to prod and clean up the number. */
    pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
    pval->n_value = pval->n_ptr;
    pval->n_len = len2 + len1 + 1 - full_scale;
    pval->n_scale = prod_scale;
    _bc_rm_leading_zeros (pval);
    if (bc_is_zero (pval))
        pval->n_sign = PLUS;
    bc_free_num (prod);
    *prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT. It is written so that NUM and RESULT can be
the same pointers. */
static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
        {
            if (digit == 1)
                memcpy (result, num, size);
            else
                }
        memncpy (result, num, size);
        else
/* Initialize */
nptr = (unsigned char *) (num+size-1);
rptr = (unsigned char *) (result+size-1);
carry = 0;

while (size-- > 0)
{
  value = *nptr-- * digit + carry;
  *rptr-- = value % BASE;
  carry = value / BASE;
}

if (carry != 0) *rptr = carry;
}
}
}

/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int bc_divide (n1, n2, quot, scale)
  bc_num n1, n2, *quot;
  int scale;
{
  bc_num qval;
  unsigned char *num1, *num2;
  unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
  int scale1, val;
  unsigned int len1, len2, scale2, qdigits, extra, count;
  unsigned int qdig, qguess, borrow, carry;
  unsigned char *mval;
  char zero;
  unsigned int norm;

  /* Test for divide by zero. */
  if (bc_is_zero (n2)) return -1;

  /* Test for divide by 1. If it is we must truncate. */
  if (n2->n_scale == 0)
  {
    if (n2->n_len == 1 && *n2->n_value == 1)
    {
      qval = bc_new_num (n1->n_len, scale);
    }
qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
memset (&qval->n_value[n1->n_len],0,scale);
memcpy (qval->n_value, n1->n_value,
n1->n_len + MIN(n1->n_scale,scale));
bc_free_num (quot);
*quot = qval;
}
}
/* Set up the divide. Move the decimal point on n1 by n2's scale.
   Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;
len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
  extra = scale - scale1;
else
  extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);
len2 = n2->n_len + scale2;
um2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr++ == 0)
  len2--;
/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
  { qdigits = scale+1;
    zero = TRUE;
  }
else
  { zero = FALSE;
    if (len2>len1)
qdigits = scale+1; /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
 }

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale, scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
    qptr = (unsigned char *) qval->n_value+len2-len1;
    else
    qptr = (unsigned char *) qval->n_value;

    /* Loop */
    while (qdig <= len1+scale-len2)
    {
        /* Calculate the quotient digit guess. */
        if (*n2ptr == num1[qdig])
            qguess = 9;
        else
            qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

        /* Test qguess. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
            + num1[qdig+2])
        {
            qguess--;
        /* And again. */
        if (n2ptr[1]*qguess >
(num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
+ num1[qdig+2])
qguess--;
}

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
    *mval = 0;
    _one_mult (n2ptr, len2, qguess, mval+1);
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) mval+len2;
    for (count = 0; count < len2+1; count++)
    {
        val = (int) *ptr1 - (int) *ptr2-- - borrow;
        if (val < 0)
        {
            val += 10;
            borrow = 1;
        }
        else
            borrow = 0;
        *ptr1-- = val;
    }
}

/* Test for negative result. */
if (borrow == 1)
{
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
        *ptr1-- = val;
    }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}
/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT is NULL then that store will be omitted. */

int
bc_divmod (num1, num2, quot, rem, scale)
  bc_num num1, num2, *quot, *rem;
  int scale;
{
  bc_num quotient = NULL;
  bc_num temp;
  int rscale;

  /* Check for correct numbers. */
  if (bc_is_zero (num2)) return -1;

  /* Calculate final scale. */
  rscale = MAX (num1->n_scale, num2->n_scale+scale);
  bc_init_num(&temp);

  /* Calculate it. */
  bc_divide (num1, num2, &temp, scale);
  if (quot)
    quotient = bc_copy_num (temp);
bc_multiply (temp, num2, &temp, rscale);
bc_sub (num1, temp, rem, rscale);
bc_free_num (&temp);

if (quot)
{
    bc_free_num (quot);
    *quot = quotient;
}

return 0;/* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
placed in RESULT. If a EXPO is not an integer,
only the integer part is used. */

int
bcraisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;

    /* Set initial values. */
    power = bc_copy_num (base);
    exponent = bc_copy_num (expo);
    temp = bc_copy_num (_one_);
    bc_init_num(&parity);

    /* Check the base for scale digits. */
if (base->n_scale != 0)
    bc_rt_warn ("non-zero scale in base");

/* Check the exponent for scale digits. */
if (exponent->n_scale != 0)
    {  
        bc_rt_warn ("non-zero scale in exponent");  
        bc_divide (exponent, _one_, &exponent, 0); /*truncate */
    }

/* Check the modulus for scale digits. */
if (mod->n_scale != 0)
    bc_rtרern ("non-zero scale in modulus");

/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
    {  
        (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
        if ( !bc_is_zero(parity) )
            {  
                bc_multiply (temp, power, &temp, rscale);
                (void) bc_modulo (temp, mod, &temp, scale);
            }
        bc_multiply (power, power, &power, rscale);
        (void) bc_modulo (power, mod, &power, scale);
    }

/* Assign the value. */
broadcast (num1, num2, result, scale);
broadcast (num1, num2, result, scale);
broadcast (num1, num2, result, scale);
*result = temp;
return 0; /* Everything is OK. */

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT. */
void
bc_raise (num1, num2, result, scale)
    {  
        bc_num num1, num2, *result;
        int scale;
        {  
            bc_num temp, power;
            long exponent;
        }
int rscale;
int pwrscale;
int calcscale;
char neg;

/* Check the exponent for scale digits and convert to a long. */
if (num2->n_scale != 0)
    bc_rt_warn ("non-zero scale in exponent");
exponent = bc_num2long (num2);
if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
    bc_rt_error("exponent too large in raise");

/* Special case if exponent is a zero. */
if (exponent == 0)
{
    bc_free_num (result);
    *result = bc_copy_num (_one_);
    return;
}

/* Other initializations. */
if (exponent < 0)
{
    neg = TRUE;
    exponent = -exponent;
    rscale = scale;
}
else
{
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{  
pwrscale = 2*pwrscale;
bc_multiply (power, power, &power, pwrscale);
if ((exponent & 1) == 1) {
  calcscale = pwrscale + calcscale;
broadcast multiply (temp, power, &temp, calcscale);
}
exponent = exponent >> 1;
}

/* Assign the value. */
if (neg) {
  bc_divide (_one_, temp, result, rscale);
broadcast_free_num (&temp);
} else {
  broadcast_free_num (result);
  *result = temp;
  if ((*result)->n_scale > rscale)
    (*result)->n_scale = rscale;
  broadcast_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits  
after the decimal place. */

int
bc_sqrt (num, scale)
  
  bc_num *num;

  int scale;
{
  int rscale, cmp_res, done;
  int cscale;
  bc_num guess, guess1, point5, diff;

  /* Initial checks. */
  cmp_res = bc_compare (*num, _zero_);
  if (cmp_res < 0)
    return 0; /* error */
  else
    {
      if (cmp_res == 0)
        {
          bc_free_num (num);
          *num = bc_copy_num (_zero_);
        }
return 1;
}

cmp_res = bc_compare (*num, _one_);
if (cmp_res == 0)
{
    bc_free_num (num);
    *num = bc_copy_num (_one_);
    return 1;
}

/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bcd_init_num(&guess1);
bcd_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
bcd_multiply (guess1, point5, &guess1, 0);
guess1->n_scale = 0;
bcd_raise (guess, guess1, &guess, 0);
bcd_free_num (&guess1);
cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
bcd_divide (*num, guess, &guess, cscale);
bcd_add (guess, guess1, &guess, 0);
bc_multiply (guess, point5, &guess, cscale);
b_sub (guess, guess1, &diff, cscale+1);
if (bc_is_near_zero (diff, cscale))
{
    if (cscale < rscale+1)
        cscale = MIN (cscale*3, rscale+1);
    else
        done = TRUE;
}

/* Assign the number and clean up. */
b_free_num (num);
b_divide (guess,_one_,num,rscale);
b_free_num (&guess);
b_free_num (&guess1);
b_free_num (&point5);
b_free_num (&diff);
return 1;
}

/* The following routines provide output for bcd numbers package
using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
    long  digit;
    struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly SIZE
characters must be output for the value VAL. If SPACE is non-zero, we must output
one space before the number. OUT_CHAR is the actual routine for writing the
characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
#endif
{
    char digits[40];
    int len, ix;

    if (space) (*out_char) (' ');
    sprintf (digits, "%ld", val);
    len = strlen (digits);
    while (size > len)
    {
        (*out_char) ('0');
        size--;
    }
    for (ix=0; ix < len; ix++)
        (*out_char) (digits[ix]);
}

/* Output of a bcd number.  NUM is written in base O_BASE using OUT_CHAR
    as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#else
    void (*out_char)(int);
#endif

    int leading_zero;
{
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            
            /* The number is in base 10, do it the fast way. */
            nptr = num->n_value;
            if (num->n_len > 1 || *nptr != 0)
for (index=num->n_len; index>0; index--)
    (*out_char) (BCD_CHAR(*nptr++));
else
    nptr++;  
if (leading_zero && bc_is_zero (num))
    (*out_char) ('0');

/* Now the fraction. */
if (num->n_scale > 0)
{
    (*out_char) ('.);
    for (index=0; index<num->n_scale; index++)
        (*out_char) (BCD_CHAR(*nptr++));
}
else  
{
    /* special case ... */
    if (leading_zero && bc_is_zero (num))
        (*out_char) ('0');
    /* The number is some other base. */
digits = NULL;
    bc_init_num (&int_part);
    bc_divide (num, _one_, &int_part, 0);
    bc_init_num (&frac_part);
    bc_init_num (&cur_dig);
    bc_init_num (&base);
    bc_sub (num, int_part, &frac_part, 0);
    /* Make the INT_PART and FRAC_PART positive. */
    int_part->n_sign = PLUS;
    frac_part->n_sign = PLUS;
    bc_int2num (&base, o_base);
    bc_init_num (&max_o_digit);
    bc_int2num (&max_o_digit, o_base-1);
    /* Get the digits of the integer part and push them on a stack. */
    while (!bc_is_zero (int_part))
    {
        bc_modulo (int_part, base, &cur_dig, 0);
        temp = (stk_rec *) malloc (sizeof(stk_rec));
        if (temp == NULL) bc_out_of_memory();
        temp->digit = bc_num2long (cur_dig);
        temp->next = digits;
        digits = temp;
        bc_divide (int_part, base, &int_part, 0);
/* Print the digits on the stack. */
if (digits != NULL)
{
  /* Output the digits. */
  while (digits != NULL)
  {
    temp = digits;
    digits = digits->next;
    if (o_base <= 16)
      (*out_char) (ref_str[ (int) temp->digit]);
    else
      bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
    free (temp);
  }
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
  (*out_char) ('.');
  pre_space = 0;
  t_num = bc_copy_num (_one_);
  while (t_num->n_len <= num->n_scale) {
    bc_multiply (frac_part, base, &frac_part, num->n_scale);
    fdigit = bc_num2long (frac_part);
    bc_int2num (&int_part, fdigit);
    bc_sub (frac_part, int_part, &frac_part, 0);
    if (o_base <= 16)
      (*out_char) (ref_str[fdigit]);
    else {
      bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
      pre_space = 1;
    }
    bc_multiply (t_num, base, &t_num, 0);
  }
  bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}
/* Convert a number NUM to a long. The function returns only the integer part of the number. For numbers that are too large to represent as a long, this function returns a zero. This can be detected by checking the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
    long val;
    char *nptr;
    int  index;

    /* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
    val = val*BASE + *nptr++;

    /* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

    /* Return the value. */
    if (num->n_sign == PLUS)
    return (val);
    else
    return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int  ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)
    {
        neg = 1;
        val = -val;
/* Get things going. */
bptr = buffer;
*bptr++ = val % BASE;
val = val / BASE;

/* Extract remaining digits. */
while (val != 0)
{
    *bptr++ = val % BASE;
    val = val / BASE;
    ix++; /* Count the digits. */
}

/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
    *vptr++ = *--bptr;

/* Convert a numbers to a string. Base 10 only. */

char
*num2str (num)
    bc_num num;
{
    char *str, *sptr;
    char *nptr;
    int  index, signch;

    /* Allocate the string memory. */
    signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
    if (num->n_scale > 0)
        str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
    else
        str = (char *) malloc (num->n_len + 1 + signch);
    if (str == NULL) bc_out_of_memory();

    /* The negative sign if needed. */
    sptr = str;
    if (signch) *sptr++ = '-' ;

/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

/* Now the fraction. */
if (num->n_scale > 0)
{
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr++);
}

/* Terminate the string and return it! */
*sptr = '0';
return (str);
}

/* Convert strings to bc numbers. Base 10 only. */
void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
    digits = 0;
    strscale = 0;
    zero_int = FALSE;
    if ( ("ptr == '+' || \("ptr == '-'\) ptr++; /* Sign */
        while (*ptr == '0') ptr++; /* Skip leading zeros. */
        while (isdigit(int)*ptr)) ptr++, digits++; /* digits */
        if (*ptr == '.') ptr++; /* decimal point */
        while (isdigit(int)*ptr)) ptr++, strscale++; /* digits */
        if (*ptr != '0') (digits+strscale == 0))
        {
            *num = bc_copy_num (_zero_);
            return;
        }
/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
    digits = 1;
}
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == ')
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
    putchar(c);
}
void
pn (num)
  bc_num num;
{
  bc_out_num (num, 10, out_char, 0);
  out_char ('\n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
  char *name;
  unsigned char *num;
  int len;
{
  int i;
  printf("%s=", name);
  for (i=0; i<len; i++) printf("%c", BCD_CHAR(num[i]));
  printf("\n");
}

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- jsp_2_3.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- javaee_web_services_client_1_4.xsd
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jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java
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jar/com/sun/msv/datatype/xsd/MinInclusiveFacet.java
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jar/com/sun/msv/datatype/xsd/SimpleURType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/XSDatatype.java
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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/SerializationContext.java
jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/DataTypeWithLexicalConstraintFacet.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/Base64BinaryType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/IDType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/GYearMonthType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/IntegerType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/GDayType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/ListValueType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/DurationType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/ConcreteType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/TokenType.java
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jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarParser.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/datetime/CalendarFormatter.java
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jar/com/sun/msv/datatype/xsd/datetime/TimeZone.java
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jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java
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jar/com/sun/msv/datatype/xsd/regex/RegExp.java
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jar/com/sun/msv/datatype/xsd/FinalComponent.java
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jar/com/sun/msv/datatype/xsd/GMonthType.java
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jar/com/sun/msv/datatype/xsd/GMonthDayType.java
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jar/com/sun/msv/datatype/xsd/GMonthDayType.java
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  jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/regexp/RegularExpression.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/regexp/Match.java
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  jar/com/sun/msv/datatype/regexp/Op.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/regexp/REUtil.java
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1.357 jakarta-xml-ws-api 2.3.3

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OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
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The following list of people, sorted by last name, have contributed
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
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Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
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Nikitser, Peter A.
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Percival, Ted
Perera, Andres
Peron, Christian S.J.
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Peterson, Toby
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Richards, Matt
Rossum, Guido van
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Rowe, William A., Jr.
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Sanches, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
The following people have worked to translate sudo into other languages:

Blitterman, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
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Hantrais, Frédéric
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Hufthammer, Karl Ove
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Psa, Petr
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1.362 xml-utils 1.2.21

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# application/alto-costmapfilter+json
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# application/alto-networkmap+json
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application/gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudiotk
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml
# application/iotp
application/ipfix+xml
# application/ipp
# application/isup
# application/its+xml
application/java-archive
application/java-serialized-object
application/java-vm
application/javascript
# application/jose
# application/jose+json
# application/jrd+json
application/json
# application/json-_patch+json
# application/json-seq
application/jsonml+xml
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/l+json
# application/lg+xml
# application/link-format
# application/load-control+xml
application/lost+xml
application/lostsync+xml
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application/mac-compactpro
# application/macwriteii
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# image/vnd.cns.inf2
image/vnd.dece.graphic ui uvi uvg uvg
image/vnd.djv djv
image/vnd.dvb.subtitle sub
image/vnd.dwg dwg
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# video/h264-svc
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# video/jpeg2000
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# video/mp2t
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  jar/org/springframework/http/codecs/support/BaseDefaultCodecs.java
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jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java
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* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/client/HttpComponentsAsyncClientHttpResponse.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/bind/ServletRequestUtils.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/remoting/jaxws/LocalJaxWsServiceFactoryBean.java

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* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/HttpStatus.java
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## xwd v1.0.7

### xwd utility

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

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

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

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

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

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

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

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

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

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

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

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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The test programs in this directory tree are for demonstrating and testing the functionality of the SDL library, and are placed in the public domain.

October 28, 1997
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Sam Lantinga (slouken@libsdl.org)

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Version 2.1, February 1999

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

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

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

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

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Sections 1 and 2 above); and, if the work is an executable linked
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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1.378 gobject-introspection 1.56.1-1.el7

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1.380 nettle 2.7.1 8.el7

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 *
 * PKCS #5 PBKDF2 used with HMAC-SHA256, see RFC 2898.
 */

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1.381 e2fsprogs 1.42.9 16.el7
1.381.1 Available under license :

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

This package was put together by Yann Dirson <dirson@debian.org>,

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*/

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

- trivial database library - private includes
-
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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

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

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

image:$(BSD_LIB)

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

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

install-shlibs-strip: install-shlibs

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

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

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using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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

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

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

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If such an object file uses only numerical parameters, data
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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

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

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1.400 icu 57
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

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

## Bind internal references

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

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

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

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* /opt/ cola/ permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/zip/Keep.java
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* /opt/ cola/ permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/zip/PostMortem.java
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CDL.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XMLTokener.java
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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1.405 jcommander 1.48

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1.407 jackson-annotations 2.9.0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
1.411 icu 53

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n\n| sed "\$\{<\}g \n\n| rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n\n| sed "\$\{<\}g \n\n| rm -f $@"

## Versioned libraries rules

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

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

## Bind internal references

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

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

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

## End BSD-specific setup

1.412 avahi 0.6.31-20.el7

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1.413 libpcap 1.5.3 11.el7

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1.414 ca-certificates 2019.2.32 76.el7_7
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```
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# vim:et sw=4:
#
# certdata2pem.py - splits certdata.txt into multiple files
#
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1.416 yelp 3.28.1 1.el7

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1.419 pyliblzma 0.5.3

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  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
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/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.
 *
 * @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
 * </ul>
 * 
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
 * <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
 * <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
 * </ul>
 * 
 * For more information, please refer to the documentation of each subtype.
 * 
 *</h3>The context object</h3>
A `ChannelHandler` is provided with a `ChannelHandlerContext` object. A `ChannelHandler` is supposed to interact with the `ChannelPipeline` it belongs to via a context object. Using the context object, the `ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using `AttributeKey`s) which is specific to the handler.

### State management

A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See [ChannelInitializer#initChannel(Channel)].
public class DataServerInitializer extends ChannelInitializer<Channel> {

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```
Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use AttributeKey's which is provided by ChannelHandlerContext:

```java
public interface Message {
    // your methods here
}

@Sharable
global class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }

    ...
}
```

Now that the state of the handler is attached to the ChannelHandlerContext, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```
The `@Sharable` annotation

In the example above which used an `@link AttributeKey`, you might have noticed the `@code @Sharable` annotation.

If a `@link ChannelHandler` is annotated with the `@code @Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`'s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like a link to the JCIP annotations.

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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  jar/io/netty/channel/pool/ChannelHealthChecker.java
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  jar/io/netty/channel/pool/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/PreferHeapByteBufAllocator.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/ChannelId.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/MessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/group/ChannelException.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/DefaultChannelId.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/ConnectTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/DefaultChannelId.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/ChannelGroupException.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/ChannelGroupException.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
  jar/io/netty/channel/ChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-
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1.421 ethtool 4.8 9.el7

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1.422 yum 3.4.3-163.el7
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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
     except Errors.RepoMDError:
         continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 5973
def get_notices(self, name=None):
    """Return all notices. """
    if name is None:
        if name is None:
            other_arch_list = []
            notices = set()
            for notice in self.get_notices(name):
                for upkg in notice['pkglist']:
                    other_arch = False
                    if pkg['name'] != name or pkg['arch'] != arch:
                    continue
                    if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
                        other_arch = True
                    else:
                        continue
                    pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                              pkg['version'], pkg['release'])
                    if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                        continue
                    ret.append((pkgtup, notice))
                    if other_arch:
                        other_arch_list.append((pkgtup, notice))
                    else:
                        ret.append((pkgtup, notice))
                        notices.add(notice)
                for pkgtup, notice in other_arch_list:
                    if notice not in notices:
                        ret.append((pkgtup, notice))
    ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
    return ret

def safe_iterparse(filename, logger=None):

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
        import logginglevels
        import rpmUtils.miscutils
        +from rpmUtils.arch import ArchStorage

        def safe_iterparse(filename, logger=None):

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

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

@@ -113,6 +134,7 @@ class UpdateNotice(object):
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if data == 'status': # FIXME: See below...
    continue
if self._md[data] != other._md[data]:
    _log_failure(data)
    return False

# FIXME: Massive hack, Fedora is really broken and gives status=stable
# and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
    data = 'status'
    if self._md[data] != other._md[data]:
        if self._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
            return False
    if other._md[data] not in ('stable', 'testing'):
+            _log_failure(data)
            return False
    # They are both really "stable" ...
    self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
for event, elem in safe_iterparse(infile, logger=self._logger):
    if elem.tag == 'update':
        try:
-            un = UpdateNotice(elem)
+            un = UpdateNotice(elem, repoid, self._vlogger)
        except UpdateNoticeException, e:
            msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
            if self._vlogger:
                @@ -587,6 +611,8 @@ class UpdateMetadata(object):
                    msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
+                    have_dup = True
+                have_dup = True
                have_dup = True
            if self._vlogger:
                self._vlogger.warn("%s", msg)

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Mesa 3-D graphics library
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* @author Rainer Pruy

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1.440 commons-daemon 1.0.7

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
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lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/gssapi/mechglue/g_acquire_cred.c  
lib/gssapi/mechglue/g_canon_name.c  
lib/gssapi/mechglue/g_compare_name.c  
lib/gssapi/mechglue/g_context_time.c  
lib/gssapi/mechglue/g_delete_sec_context.c  
lib/gssapi/mechglue/g_dsp_name.c  
lib/gssapi/mechglue/g_dsp_status.c  
lib/gssapi/mechglue/g_dup_name.c  
lib/gssapi/mechglue/g_exp_sec_context.c  
lib/gssapi/mechglue/g_export_name.c  
lib/gssapi/mechglue/g_glue.c  
lib/gssapi/mechglue/g_imp_name.c  
lib/gssapi/mechglue/g_imp_sec_context.c  
lib/gssapi/mechglue/g_init_sec_context.c  
lib/gssapi/mechglue/g_initialize.c  
lib/gssapi/mechglue/g_inquire_context.c  
lib/gssapi/mechglue/g_inquire_cred.c  
lib/gssapi/mechglue/g_inquire_names.c  
lib/gssapi/mechglue/g_process_context.c  
lib/gssapi/mechglue/g_rel_buffer.c  
lib/gssapi/mechglue/g_rel_cred.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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Version 2, June 1991

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
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b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.457 cglib-nodep 2.2

1.458 nspr 4.21.0 1.el7

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Theodore Ts'o
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1.468 dbus-glib 0.100-7.el7

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1.470 strace 4.12 4.el7

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1.485 tftp-hpa 5.2
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*/

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c
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* ----------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
Summary: The client for the Trivial File Transfer Protocol (TFTP).

Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

prep
setup -q -n tftp-hpa-%{version}

build

configure
make %{?_smp_mflags}

install
rm -rf %{RPM_BUILD_ROOT}
mkdir -p %{RPM_BUILD_ROOT}%{_bindir}
mkdir -p %{RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p %{RPM_BUILD_ROOT}%{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \
    SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || : 

%postun server
if [ $1 = 0 ]; then
    /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16
* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051).

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003),
- add server_args (#14003),
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.
* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftp should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
  - compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

Found in path(s):
  * /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2.tar-bz2/tftp-hpa-5.2/tftp.spec.in
  No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}
%build
%configure
make %{?_smp_mflags}
%install
rm -rf %{_buildroot}
mkdir -p %{_bindir}
mkdir -p %{_mandir}/man{1,8}
mkdir -p %{_sbindir}
make INSTALLROOT=%{_buildroot} \
    SBINDIR=%{_bindir} MANDIR=%{_mandir} \
    install
install -m755 -d %{_bindir}/tftpboot
install -m644 tftp-xinetd %{_bindir}/tftpboot
%post server
/sbin/service xinetd reload > /dev/null 2>&1 ||:

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 ||:
fi

%clean
rm -rf %{RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32
* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <heller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <heller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <heller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <heller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added ".-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-I" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
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- update to tftp-hpa-0.14 (#14003).
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- FHS packaging.
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* Fri May  5 2000 Matt Wilson <msw@redhat.com>
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* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
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  - translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
  - added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
  - initial build

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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp.spec
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/MCONFIG.in
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----------------------------------------------------------------------- */

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* *
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* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
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```

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5.2-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in

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Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c

1.486 libsoup 2.62.2

1.487 genson 1.3

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

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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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a) Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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1.490 sed 4.2.2 5.el7
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Version 3, 29 June 2007

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

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

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/TangdixiDCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/TangdixiDCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/TangdixiDCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
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Found in path(s):
Pod::Spec.new do |
  
  s.name = "DCPathButton"
  s.version = "2.1.1"
  s.summary = " A beautiful button copy from Path® "
  
  s.description = <<-DESC
  DCPathButton is a menu button, design by an famous App Path®.
  Since Path® 4.0, it return to use a tab bar instead of a side bar,
  and also change the menu button. So I try to implement it and then
  the DCPathButton born :) 
  DESC

  s.homepage = "https://github.com/Tangdixi/DCPathButton"

  s.license = {
    :type => 'MIT',
    :text => 'The DCPathButton use the MIT license'
  }

  s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

  s.platform = :ios, '7.0'

  s.source = {
    :git => "https://github.com/Tangdixi/DCPathButton.git",
    :tag => "2.1.1"
  }

  s.source_files = 'DCPathButton/Classes/*.{h,m}'

  s.resources = ['DCPathButton/Sounds/*']

  s.frameworks = 'QuartzCore','AudioToolbox'

  s.requires_arc = true

  end

Found in path(s):
  * /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
    DCPathButton-39be410/Example/Example/BarButtonItemViewController.m
  * /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
    DCPathButton-39be410/Example/Example/BarButtonItemViewController.h

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DCPathButton-39be410/Example/Example/AppDelegate.m
* /opt/cola/permissions/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h
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DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.m
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DCPathButton-39be410/Example/AppDelegate.h
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DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permissions/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.m
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>
file, You can obtain one at http://mozilla.org/MPL/2.0/.
</xsl:variable>
</xsl:stylesheet>

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

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1.514 jose4j 0.6.3

1.515 pciutils 3.5.1-3.el7

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<signature of Ty Coon>, 1 April 1990
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*/

/*_setjmp in setjmp.S */

From gsf@research.att.com Wed Mar 1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
by localhost (Postfix) with ESMTP id B8C814E4F
for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (Postfix) with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 +0000
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
with SMTP; 01 Mar 2006 20:23:46 +0100

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On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
to download the needed files from the original site each time it is ran?

> Thanks, Peter
1.518 object-model 1.0.27

1.518.1 Available under license:

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Version 2.0, January 2004

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1.519 opendj-ldap-sdk 3.0.0-OPENAMp3

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1.523 redisson-all 2.15.2

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# Jackson JSON processor

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

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1.529 axis2-fastinfoset 1.7.9

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Jennifer Orr (JavaWorld) wrote: “You have permission to use the code appearing in
Steven Brandt's JavaWorld article, ‘Java Tip 128: Create a quick-and-dirty XML parser.’
We ask that you reference the author as the creator and JavaWorld as the original publisher
of the code.” Steven Brandt also agreed with the use of this class.

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Version 2, June 1991

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

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

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

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

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- **a)** Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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- **c)** Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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  jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java
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  jar/org/springframework/web/servlet/mvc/condition/MediaTypeExpression.java
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XSLT-driven View that allows for response context to be rendered as the result of an XSLT transformation.

The XSLT Source object is supplied as a parameter in the model and then detected during response rendering. Users can either specify a specific entry in the model via the property or have Spring locate the Source object. This class also provides basic conversion of objects into Source implementations. See for more details.

All model parameters are passed to the XSLT Transformer as parameters. In addition the user can configure to be passed to the Transformer.

@since 2.0

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* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-jar/org/springframework/web/servlet/tags/form/FormTag.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-jar/org/springframework/web/servlet/tags/BindTag.java
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* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
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* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-jar/org/springframework/web/servlet/HandlerExceptionResolver.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
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  jar/org/springframework/web/servlet/view/url/UrlFilenameViewController.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
  jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitter.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
jar/org/springframework/web/servlet/view/DefaultRequestToViewNameTranslator.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
jar/org/springframework/web/servlet/handler/AbstractHandlerExceptionResolver.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
jar/org/springframework/web/servlet/mvc/condition/ParamsRequestCondition.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
jar/org/springframework/web/servlet/HandlerInterceptor.java
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jar/org/springframework/web/servlet/mvc/method/annotation/PrincipalMethodArgumentResolver.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
jar/org/springframework/web/servlet/mvc/annotation/ResponseStatusExceptionResolver.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
jar/org/springframework/web/servlet/mvc/condition/PathPatternsRequestCondition.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
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jar/org/springframework/web/servlet/config/annotation/ContentNegotiationConfigurer.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
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jar/org/springframework/web/servlet/support/ServletUriComponentsBuilder.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
1.543 giflib 4.1.6 9.el7

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QLogic Linux FC-FCoE Driver

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

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for their continuing work on the DVB driver
Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

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the module unloading problems, ...
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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
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*/

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

---

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

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Documentation/licenses/COPYING.BSD-3 file.
Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

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

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

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
-------------------
Create 2st primary partition
1bebf87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fбе bsd.img

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

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD
-------------------
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

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

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end    size    fstype   [fsise bsize cpg]
c: 4096   20479  16384    unused    0   0
d: 0      16064  16065    unused    0   0

BSD disklabel command (m for help):
Command (m for help):

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

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-------

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end    size    fstype   [fsise bsize cpg]
a: 4096   6144   2049    4.2BSD    0   0   0
c: 4096   20479  16384    unused    0   0
d: 0      16064  16065    unused    0   0

BSD disklabel command (m for help):
Command (m for help):

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

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

Command (m for help):

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

BSD disklabel command (m for help):
1.555 redisson 2.15.2

1.555.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/RedissonBloomFilter.java

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* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/spring/support/redisson-1.2.xsd
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/spring/support/redisson-1.1.xsd
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/spring/support/redisson-1.3.xsd
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/spring/support/redisson-1.0.xsd
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Found in path(s):
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RDequeReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/MapOptions.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/reactive/RedissonTransactionReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RPatternTopic.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/transaction/operation/map/MapAddAndGetOperation.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/protocol/decoder/GeoMapReplayDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/liveobject/resolver/RequiredIdResolver.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/liveobject/resolver/LongGenerator.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/protocol/Time.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/reactive/RedissonListReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RLexSortedSetRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/transaction/BaseTransactionalSet.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/connection/SingleEntry.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/decoder/ListMultiDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/RedisStrictCommand.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RSortableReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/rx/RedissonSetMultimapRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/rx/RedissonListRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RMultimapCacheAsync.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/NodesGroup.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RedissonBatch.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/remote/ResponseEntry.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/liveobject/resolver/DefaultNamingScheme.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/BatchCommandData.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/rx/RedissonListMultimapIterator.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/liveobject/resolver/ORCondition.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/liveobject/resolver/DefaultNamingScheme.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/RedissonListIterator.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/NodesGroup.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RedissonBinaryStream.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/remote/RedissonNode.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/liveobject/resolver/DefaultNamingScheme.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RedissonListMultimapIterator.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RedissonBatch.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/RedissonNode.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/liveobject/resolver/DefaultNamingScheme.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RedissonListIterator.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RedissonBinaryStream.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/remote/RedissonNode.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/liveobject/resolver/DefaultNamingScheme.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/RedissonNode.java
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* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RBloomFilter.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonMultiMapIterator.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonAtomicLong.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/transaction/operation/map/MapFastPutIfAbsentOperation.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonRateLimiter.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/codec/SnappyCodec.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/rx/ElementsStream.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/liveobject/core/FieldAccessorInterceptor.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonMapCache.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/codec/JsonJacksonCodec.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/handler/PingConnectionHandler.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonDelayedQueue.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonBitSet.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/connection/NodeSource.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RTopicReactive.java
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* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RLList.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonList.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/cache/StdCachedValue.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/codec/MsgPackJacksonCodec.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonFairLock.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/protocol/decoder/PendingEntryDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/rx/RedissonBatchRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/misc/Injector.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RQueueReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/RedisPubSubListener.java
jar/org/redisson/jcache/JCacheManager.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/pubsub/CountDownLatchPubSub.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonBuckets.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonRedLock.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RScriptRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/listener/MessageListener.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/transaction/operation/map/MapFastPutOperation.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/mapreduce/MapReduceTimeoutException.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/cluster/ClusterConnectionManager.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/rx/RedissonSetCacheRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/command/CommandSyncExecutor.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/reactive/CommandReactiveExecutor.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RListMultimap.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RBatchReactive.java
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* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RExecutorServiceAsync.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RMapCacheReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/executor/RedissonExecutorFuture.java
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* /opt/cola/permits/1139010483_1614372177.93/0/redisson/cache/CachedValue.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RExecutorServiceAsync.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RMapCacheReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/ClusterNodesGroup.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/mapreduce/BaseMapperTask.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/RReadWriteLock.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/client/protocol/decoder/ObjectSetReplayDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/spring/cache/CacheConfig.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/QueueTransferService.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/RSortable.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/RSemaphoreReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/RSemaphoreReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/BatchResult.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/config/Config.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/GeoPosition.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/RHyperLogLogAsync.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/codec/CustomObjectInputStream.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/connection/SingleConnectionManager.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/client/protocol/decoder/ListScanResultReplayDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/client/RedisLoadingException.java
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* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/config/ClusterServersConfig.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/rx/RedissonMapCacheRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RBitSetAsync.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RedissonClient.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonCountDownLatch.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/misc/CountableListener.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/executor/RedissonClassLoader.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/spring/transaction/RedissonTransactionHolder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/handler/StateLevel.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RObject.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RObjectAsync.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/rx/RedissonSetRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/pubs/sub/PubSubConnectionEntry.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/cache/AbstractCacheMap.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/spring/support/AbstractRedissonNamespaceDefinitionParser.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RSemaphore.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RMultimapCache.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/spring/cache/NullValue.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/ScoredEntry.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/SlotCallback.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/reactive/PublisherAdder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/handler/BaseConnectionHandler.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/decoder/ObjectMapDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/eviction/ScoredSetEvictionTask.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/RHyperLogLog.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/pubsub/PubSubPatternMessageDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/spring/cache/RedissonCache.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/codec/BaseCodec.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/decoder/ObjectMapEntryReplayDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/map/event/EntryExpiredListener.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/RedissonListMultimapValues.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/api/config/SubscriptionMode.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/transaction/operation/bucket/RedissonTrySetOperation.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/RedissonClientConfig.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RedissonNodeInitializer.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RPermitExpirableSemaphore.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/misc/URIBuilder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonPriorityBlockingQueue.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/connection/pool/SlaveConnectionPool.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/listener/PatternStatusListener.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/convertor/TimeObjectDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/connection/pool/MasterPubSubConnectionPool.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/protocol/decoder/MapCacheScanResult.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/protocol/convertor/BooleanNumberReplayConvertor.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/protocol/convertor/TimeObjectDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RPermitExpirableSemaphoreRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/transaction/operation/bucket/BucketTrySetOperation.java

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java jar/org/redisson/liveobject/condition/EQCondition.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/reactive/RedissonSetMultimapReactive.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/handler/PubSubKey.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/protocol/convertor/BitsSizeReplayConvertor.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/RedissonMultimap.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/reactive/RedissonReadWriteLockRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RTransactionRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RGeo.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/transaction/operation/bucket/BucketGetAndDeleteOperation.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/client/protocol/pubsub/Message.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/cluster/ClusterNodeInfo.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/mapreduce/CollectionMapperTask.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/RRateLimiterRx.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-jar/org/redisson/api/CronSchedule.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/protocol/pool/ConnectionPool.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/client/SubscribeListener.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/RedissonReadWriteLock.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson/Redisson.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson-2-15-2-sources-1.jar/org/redisson/api/RSetCacheReactive.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson-2-15-2-sources-1.jar/org/redisson/command/AsyncDetails.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/api/annotation/RFieldAccessor.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/transaction/TransactionTimeoutException.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/transaction/operation/bucket/BucketCompareAndSetOperation.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/executor/ScheduledTasksService.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/api/RCountDownLatch.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/mapreduce/RedissonMapReduce.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/transaction/operation/set/RemoveCacheOperation.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/liveobject/core/RObjectInterceptor.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/rx/RedissonBlockingDequeRx.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/api/RTopic.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/client/handler/RedisConnectionHandler.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/api/RPatternTopicReactive.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/reactive/RedissonSetReactive.java
*/opt/cola/permissions/1139010483_1614372177.93/0/redisson/client/handler/RedisPubSubConnectionHandler.java

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jar/org/redisson/api/RAAtomicLongRx.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/RedissonReference.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/RTTransactionReactive.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/RedissonBoundedBlockingQueue.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/RedissonPriorityQueue.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/RBitSetReactive.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/mapreduce/SubTasksExecutor.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/RedissonLongAdder.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/RAMultiGet.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/RedissonProxyBuilder.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/session/RedissonSessionRepository.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson/reactive/ReactiveProxyBuilder.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson/cache/LocalCacheView.java
*/opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
jar/org/redisson/api/RPriorityBlockingDeque.java

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  jar/org/redisson/liveobject/misc/ClassUtils.java
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  jar/org/redisson/client/handler/CommandDecoder.java
* /opt/cola/permits/1139010483_1614372177.93/0/redisson-2-15-2-sources-1-
  jar/org/redisson/client/handler/CommandEncoder.java

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1.559 wpa-supplicant 2.6 12.el7

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1.560 i18n-core 1.4.0

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1.562 libxml 2.9.1-6.el7.5

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1.563 libnuma 2.0.12-3.el7_7.1

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src/base/fthash.c
src/base/md5.c
src/base/md5.h
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src/bdf/bdf.h
src/bdf/bdfdrivr.c
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Mesa 3-D graphics library
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<td>* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1.jar/org/ehcache/impl/internal/events/FireableStoreEventHolder.java</td>
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<td>* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1.jar/org/ehcache/core/events/CacheEventListenerProvider.java</td>
</tr>
<tr>
<td></td>
<td>* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1.jar/org/ehcache/jsr107/Eh107CacheStatisticsMXBean.java</td>
</tr>
<tr>
<td></td>
<td>* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1.jar/org/ehcache/config/ExpiryUtils.java</td>
</tr>
</tbody>
</table>
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/impl/config/AbstractResourcePool.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/event/EventOrdering.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/core/statistics/CacheStatistics.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/config/CacheRuntimeConfiguration.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/xml/CoreCacheConfigurationParser.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/jsr107/internal/Jsr107LatencyMonitor.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/spi/service/package-info.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/core/statistics/Jsr107LatencyMonitor.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/xml/provider/DefaultSizeOfEngineProviderConfigurationParser.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/impl/internal/spi/event/DefaultCacheEventListenerProvider.java

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* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/reflect/MemberUtils.java
* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/org/ehcache/impl/internal/classes/commonslang/reflect/MethodUtils.java
1.575 cxf 3.4.0

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* /opt/cola/permits/1103168980_1604022704.83/0/cxf-3-4-0-sources-1-jar/com/sap/cloud/sdk/frameworks/cxf/security/SecureAnnotationsInterceptor.java

1.576 curl 7.29.0 57.el7

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c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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

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// Because attribute values may be confidential, we don't want to log them!

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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/waf/rules/AddHTTPOnlyFlagRule.java
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/waf/ESAPIWebApplicationFirewallFilter.java
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 * @author kevin.w.wall@gmail.com
 * @created 2007
 */

/**
 * Encrypts the provided plaintext and returns a ciphertext string using the master secret key and default cipher transformation.
 * </p><p>
 * Compatibility with earlier ESAPI versions: The symmetric encryption in ESAPI 2.0 and later is not compatible with the encryption in ESAPI 1.4 or earlier. Not only are the interfaces slightly different, but they format of the serialized encrypted data is incompatible. Therefore, if you have encrypted data with ESAPI 1.4 or earlier, you must first encrypt it and then re-encrypt it with ESAPI 2.0. Backward compatibility with ESAPI 1.4 was proposed to both the ESAPI Developers and ESAPI Users mailing lists and voted down. More details are available in the ESAPI document
 * </p><p>
 * Why this method is deprecated: Most cryptographers strongly suggest that if you are creating crypto functionality for general-purpose use, at a minimum you should ensure that it provides authenticity, integrity, and confidentiality. This method only provides confidentiality, but not
authenticity or integrity. Therefore, you are encouraged to use
one of the other encryption methods referenced below. Because this
method provides neither authenticity nor integrity, it may be
removed in some future ESAPI Java release. Note: there are some cases
where authenticity / integrity are not that important. For instance, consider
a case where the encrypted data is never out of your application's control. For
example, if you receive data that your application is encrypting itself and then
storing the encrypted data in its own database for later use (and no other
applications can query or update that column of the database), providing
confidentiality alone might be sufficient. However, if there are cases
where your application will be sending or receiving already encrypted data
over an insecure, unauthenticated channel, in such cases authenticity and
integrity of the encrypted data likely is important and this method should
be avoided in favor of one of the other two.

@params
plaintext
 the plaintext { @code String } to encrypt. Note that if you are encrypting
general bytes, you should encrypt that byte array to a String using
"UTF-8" encoding.

@return
the encrypted, base64-encoded String representation of 'plaintext' plus
the random IV used.

@throws
EncryptionException
if the specified encryption algorithm could not be found or another problem exists with
the encryption of 'plaintext'

@see #encrypt(PlainText)
@see #encrypt(SecretKey, PlainText)

@deprecated As of 1.4.2; use { @link #encrypt(PlainText)} instead, which
also ensures message authenticity. This method will be
completely removed as of the next major release or point
release (3.0 or 2.1, whichever comes first) as per OWASP
deprecation policy.
*/

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An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by either specially logging the event, logging out the current user, or invalidating the current user's account.

Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from anywhere and will not require a lot of special exception handling.

The method is ESAPI's Key Derivation Function (KDF) that computes a derived key from the { @code keyDerivationKey } for either
* encryption / decryption or for authentication.
* <p>
* CAUTION: If this algorithm for computing derived keys from the
* key derivation key is ever changed, we risk breaking backward compatibility of being
* able to decrypt data previously encrypted with earlier / different versions
* of this method. Therefore, do not change this unless you are 100% certain that
* what you are doing will NOT change either of the derived keys for
* ANY "key derivation key" AT ALL!!
* <p>
* NOTE: This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class [code JavaEncryptor]
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.
* 
* @param keyDerivationKey  A key used as an input to a key derivation function
* to derive other keys. This is the key that generally
* is created using some key generation mechanism such as
* {|link #generateSecretKey(String, int)|}. The
* "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key.
* @param keySize The cipher's key size (in bits) for the [code keyDerivationKey].
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* Note: The derived key will have the same size as this.
* @param purpose The purpose for the derived key. Must be either the
* string "encryption" or "authenticity". Use "encryption" for
* creating a derived key to use for confidentiality, and "authenticity"
* for a derived key to use with a MAC to ensure message authenticity.
* @return The derived [code SecretKey] to be used according
* to the specified purpose. Note that this serves the same purpose
* as "label" in section 5.1 of NIST SP 800-108.
* @throws NoSuchAlgorithmException The [code keyDerivationKey] has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original [code UnsupportedEncodingException]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.
* @deprecated Use[code KeyDerivationFunction] instead. This method will be removed as of
* ESAPI release 2.1 so if you are using this, please change your code.
*/
/**
* Return true if specified cipher mode is one of those specified in the
* [code ESAPI.properties] file that supports both confidentiality
* and authenticity (i.e., a "combined cipher mode" as NIST refers
* to it).
* @param cipherMode The specified cipher mode to be used for the encryption
* or decryption operation.
* @return true if the specified cipher mode is in the comma-separated list
* of cipher modes supporting both confidentiality and authenticity;
* otherwise false.
* @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
*/

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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/HTMLValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationHostException.java
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AvailabilityException.java
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/IntegerValidationRule.java
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/NumberValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/User.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultEncoder.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/crypto/DefaultEncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationCredentialsException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/IntegrityException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationUploadException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EncryptionException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationAccountsException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/IntrusionDetector.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/StringValidationRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Logger.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapper.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/JavaScriptCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Authenticator.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ExecutorException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/RequestRateThrottleFilter.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Randomizer.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/AccessController.java
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/XMLEntityCodec.java

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 * @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
 *
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/ESAPI.java

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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created February 6, 2009
 */

Found in path(s):
/ opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/filters/ClickjackFilter.java

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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
 *
 * @created 2007
 */

Found in path(s):
/ opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/DefaultValidator.java

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* @author Rogan Dawes<a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/LogFactory.java
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/**
 * Encodes and decodes to and from Base64 notation.


 * The `options` parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.

 * The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:

 * `String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );`

 * to compress the data before encoding it and then making the output have no newline characters.

 * Change Log:
 * </p>
 * </p>
 * <ul>
 * <li>v2.2.2 - Fixed encodeToFile and decodeToFile to use the
 * Base64.InputStream class to encode and decode on the fly which uses
 * less memory than encoding/decoding an entire file into memory before writing.</li>
 * <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
 * when using very small files (~< 40 bytes).</li>
 * <li>v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
*   <ol>
*   <li>The default is RFC3548 format.</li>
*   <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
*       URL and file name friendly format as described in Section 4 of RFC3548.
*   <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
*       URL and file name friendly format that preserves lexical ordering as described
*   </ol>
* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.
*  
*  <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
*      some convenience methods for reading and writing to and from files.</li>
*  <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
*      with other encodings (like EBCDIC).</li>
*  <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
*      encoded data was a single byte.</li>
*  <li>v2.0 - I got rid of methods that used booleans to set options.
*      Now everything is more consolidated and cleaner. The code now detects
*      when data that's being decoded is gzip-compressed and will decompress it
*      automatically. Generally things are cleaner. You'll probably have to
*      change some method calls that you were making to support the new
*      options format (int that you "OR" together).</li>
*  <li>v1.5.1 - Fixed bug when decompressing and decoding to a
*      byte[] using decode( String s, boolean gzipCompressed ).</li>
*  <li>v1.5 - Output stream passes on flush() command but doesn't do anything itself.
*      This helps when using GZIP streams.
*      Added the ability to "suspend" encoding in the Output Stream so
*      you can turn on and off the encoding if you need to embed base64
*      data in an otherwise "normal" stream (like an XML file).</li>
*  <li>v1.4 - Added helper methods to read/write files.</li>
*  <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
*  <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
*      where last buffer being read, if not completely full, was not returned.</li>
*  <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
*  <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
* I am placing this code in the Public Domain. Do with it as you will.
* This software comes with no guarantees or warranties but with
* plenty of well-wishing instead!
* Please visit http://iharder.net/base64
* periodically to check for updates or to contribute improvements.
* </p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.2.2
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/Base64.java
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 *
 * @author Chris Schmidt (chris.schmidt@owasp.org)
 * @created 2010
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/crypto/CryptoDiscoverer.java
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 * @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/reference/accesscontrol/ACRs.java
No license file was found, but licenses were detected in source scan.

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 * 
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
 * @created 2007
 */

// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/reference/crypto/Encryptor.java
No license file was found, but licenses were detected in source scan.

/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the { @code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * 
 * <p>
 * Note: This algorithm for computing derived keys from the
 * key derivation key is <i>not</i> changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * 
 * <p>
 * Note: This method is generally not intended to be called separately.
 * It is used by ESAPI's reference crypto implementation class { @code Encrytor}
 * and might be useful for someone implementing their own replacement class, but
 * generally it is not something that is useful to application client code.
 *
* @param keyDerivationKey A key used as an input to a key derivation function
  * to derive other keys. This is the key that generally
  * is created using some key generation mechanism such as
  * \{@link #generateSecretKey(String, int)\}. The
  * "input" key from which the other keys are derived.
  * The derived key will have the same algorithm type
  * as this key. This KDK cannot be null.
* @param keySize The cipher's key size (in bits) for the \{@code keyDerivationKey\}.
  * Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
  * <b>Note:</b> The derived key will have the same size as this.
* @param purpose The purpose for the derived key. For the ESAPI reference implementation,
  * \{@code JavaEncryptor\}, this \(<i>must</i>\) be either the string "encryption" or
  * "authenticity", where "encryption" is used for creating a derived key to use
  * for confidentiality, and "authenticity" is used for creating a derived key to
  * use with a MAC to ensure message authenticity. However, since parameter serves
  * the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
  * be set to anything other than \{@code null\} or an empty string when called outside
  * of \{@code JavaEncryptor\}.
  * @return The derived \{@code SecretKey\} to be used according
  * to the specified purpose.
  * @throws NoSuchAlgorithmException The \{@code keyDerivationKey\} has an unsupported
  * encryption algorithm or no current JCE provider supports
  * "HmacSHA1".
  * @throws EncryptionExceptionIf "UTF-8" is not supported as an encoding, then
  * this is thrown with the original \{@code UnsupportedEncodingException\}
  * as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
  * be a common encoding supported by all Java implementations. Support
  * for it is usually in rt.jar.)
  * @throws InvalidKeyException Likely indicates a coding error. Should not happen.
  * @throws EncryptionException Throw for some precondition violations.
*/

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The reference implementation sets the work directory, escapes the parameters as per the Codec in use, and then executes the command without using concatenation. The exact, absolute, canonical path of each executable must be listed as an approved executable in the ESAPI properties. The executable must also exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if you are going to invoke this interface with confidential information.

Found in path(s):
/proc/colas/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/DefaultExecutor.java

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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
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Found in path(s):
/proc/colas/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
/proc/colas/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/Log4JLogger.java
/proc/colas/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/codecs/OracleCodec.java
/proc/colas/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/Log4JLogFactory.java
/proc/colas/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
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 * 
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
 */
/**
 * Executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 * 
 * @param executable
 * the command to execute
 * @param params
 * the parameters of the command being executed
 * @param workdir
 * the working directory
 * @param codec
 * the codec to use to encode for the particular OS in use
 * @param logParams
 * use false if any parameters contains sensitive or confidential information
 * 
 * @return the output of the command being run
 * @throws ExecutorException
 * the service exception
 */
/*

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/Executor.java
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* @created 2007
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Found in path(s):
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect
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* @created 2007
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapperRequest.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/filters/SecurityWrapperResponse.java
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/**
 * This methods adds a provider to the SecurityManager
 * either by some generic name or by the class name.
 * </p><p>
 * The following generic JCE provider names are built-in:
 * <ul>
 * <li>SunJCE</li>
 * <li>IBMJCE [for WebSphere]</li>
 * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gej]</li>
 * <li>BC [i.e., Bouncy Castle]</li>
 * <li>IAIK</li>
 * <li>CryptixCrypto (or Cryptix)</li>
 * <li>ABA</li>
 * </ul>
 * Note that neither Cryptix or ABA are actively maintained so
 * it is recommended that you do not start using them for ESAPI
 * unless your application already has a dependency on them. Furthermore,
 * the Cryptix JCE jars likely will not work as the Cryptix code signing
 * certificate has expired as of August 28, 2009. (This likely is true
 * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
 * provider is no longer offered as free, open source. It is not a
 * commercial product. See [link http://jce.iaik.tugraz.at/] for
 * details. While some older versions were offered free, it is not clear
 * whether the accompanying license still allows you to use it, and if
 * it does, whether or not the code signing certificate used to sign
 * their JCE jar(s) has expired are not. Therefore, if you are looking
 * for a FOSS alternative to SunJCE, Bouncy Castle
 * ([link http://www.bouncycastle.org/] is probably your best bet. The
 * BC provider does support many the "combined cipher modes" that provide
 * both confidentiality and authenticity. (See the ESAPI.properties
 * property [link Encryptor.cipher_modes.combined_modes] for details.)
 * </p><p>
 * For those working in the U.S. federal government, it should be noted
 * that &lt;none&gt; of the providers listed here are considered validated
 * by NIST's Cryptographic Module Validation Program and are therefore
 * not considered FIPS 140-2 compliant. There are a few approved
 * JCE compatible Java libraries that are on NIST's CMVP list, but this
 * list changes constantly so they are not listed here. For further details
 * on NIST's CMVP, see
 * [link http://csrc.nist.gov/groups/STM/cmvp/index.html].
 * </p><p>
 * Finally, if you wish to use some other JCE provider not recognized above,
 * you must specify the provider's fully-qualified class name (which in
 * turn must have a public, no argument constructor).
 * </p><p>
 * The application must be given the SecurityPermission with a
 */
* value of { @code insertProvider.&lt;provider_name&gt; } (where
* &lt;provider_name&gt; is the name of the algorithm provider if
* a security manager is installed.
* </p>
*
* @param algProvider Name of the JCE algorithm provider. If the name
* contains a ".", this is interpreted as the name
* of a { @code java.security.Provider} class name.
* @param pos The preference position (starting at 1) that the
* caller would like for this provider. If you wish
* for it to be installed as the &lt;i&gt;last&lt;/i&gt; provider
* (as of the time of this call), set { @code pos} to -1.
* @return The actual preference position at which the provider was added,
* or -1 if the provider was not added because it is already
* installed.
* @exception NoSuchProviderException - thrown if the provider class
* could not be loaded or added to the { @code SecurityManager} or
* any other reason for failure.
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
No license file was found, but licenses were detected in source scan.

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* 
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* 
* @author Mike Fauzy &lt;a href="http://www.aspectsecurity.com">Aspect Security</a&gt;
* @author Jeff Williams &lt;a href="http://www.aspectsecurity.com">Aspect Security</a&gt;
* @created 2007
*/
/**
* Return a { @code List} of strings of combined cipher modes that support
* <b>both</b> confidentiality and authenticity. These would be preferred
* cipher modes to use if your JCE provider supports them. If such a
* cipher mode is used, no explicit &lt;i&gt;separate&lt;/i&gt; MAC is calculated as part of
* the { @code CipherText} object upon encryption nor is any attempt made
* to verify the same on decryption.
*
* The list is taken from the comma-separated list of cipher modes specified
* by the ESAPI property
* { @code Encryptor.cipher_modes.combined_modes}.
*
* @return The parsed list of comma-separated cipher modes if the property
* was specified in { @code ESAPI.properties}; otherwise the empty list is
* returned.
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/SecurityConfiguration.java
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/**
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 *
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 *
 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/SafeFile.java

1.586 cronie 1.4.11-23.el7

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*
*@(#)bitstring.h	8.1 (Berkeley) 7/19/93
*/

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1.589 libart 2.3.21-10.el7

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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this license or the ordinary General Public License is the better
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complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
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a) Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

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

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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++++++++++++++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

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

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

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

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

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medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1.632 java-csv 2.0
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.634 tcsh 6.18.01-15.el7

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*/
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
/#ndef _h_config
#define _h_config
/**************************** System dependant compilation flags ****************************/
/*
* POSIX	This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS	This system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK	This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS	You have BSD-style job control (both process groups and
* a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES	You have BSD-style process time stuff (like rusage)
* This may or may not be true. For example, Apple Unix
* (OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT	You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

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/* * Parts of this software have been adapted from the libpng package.     *
/* Although this library supports all features from the PNG specification *
/* (as MNG descends from it) it does not require the libpng package.       *
/* It does require the zlib library and optionally the IJG jpeg library,   *
/* and/or the "little-cms" library by Marti Maria (depending on the         *
/* inclusion of support for JNG and Full-Color-Management respectively.     */

/* **************************************************************************
/* Parts of this software have been adapted from the libpng package.     *
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/* and/or the "little-cms" library by Marti Maria (depending on the         *
/* inclusion of support for JNG and Full-Color-Management respectively.     */
/* *                                                                        * */
/* * This library's function is primarily to read and display MNG          * */
/* * animations. It is not meant as a full-featured image-editing         * */
/* * component! It does however offer creation and editing functionality   * */
/* * at the chunk level.                                                  * */
/* * (future modifications may include some more support for creation     * */
/* * and or editing)                                                      * */
/* */                                                                
/* * ************************************************************************/ 


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Copyright FAQ
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1. I don't understand the resale restriction... What gives?
Bitstream is giving away these fonts, but wishes to ensure its competitors can’t just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can’t make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

   Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

   You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

   Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

   Sure. Bundle the fonts with your software and sell your software.
with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableRangeMap.java

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/math/MathPreconditions.java

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/UnmodifiableSortedMultiset.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/SortedSetMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/ForwardingIterator.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collection/NaturalOrdering.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/net/HttpHeaders.java

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/hash/PrimitiveSink.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/hash/Funnel.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/hash/Hasher.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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1.648 databinding 1.4.0.I20100601 0800

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1.651 tiger-types 1.4
1.652 axis2-adb 1.6.2

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1.654 joda-time 2.8.1

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1.655 vim 7.4.629-6.el7

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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

VIM REFERENCE MANUAL by Bram Moolenaar

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

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

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

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

=== begin of license ===

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that you made from the unmodified Vim sources, plus your own usage
II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

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2) The modified Vim must be distributed in one of the following five ways:

   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

   d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

      - The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.

      - You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.

      - You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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

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

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

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

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

=== end of license ===

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

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

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

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

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

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.
Kibaale Children’s Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

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

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

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

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

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

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

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

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


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

Bram@iccf-holland.org

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

Others: Transfer to one of these accounts if possible:

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

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

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

vim:tw=78:ts=8:noet:ft=help:norl:
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1.663 libjpeg 6b

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DOCUMENTATION ROADMAP
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This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

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

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

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

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

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

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the foregoing paragraphs do.

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

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

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

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don’t have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.
A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


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

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

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

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

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

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

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

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

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

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

FILE FORMAT WARS

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

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

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

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

**TO DO**

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, “poor man’s variable quantization”, and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

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

---

1.664 openssl 1.1.1c

1.664.1 Available under license:

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1.670 geronimo-saaj 1.0.1

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

That's all there is to it!
Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his AFC kernel thread

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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

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Roberto Ragusa <r.ragusa@libero.it>
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for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code, the module unloading problems, ...

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for his work on calculating and checking the crc's for the TechnoTrend/Hauppauge DEC driver firmware

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for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkruufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*       combined, allow nicstar_free_rx_skb to be called to
*       recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* 
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* 
* M. Welsh, 6 July 1996
* 
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1.678 opensaml-saml-api 3.4.5

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

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

* atf-c/uic: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796d35f98d787c5cffe2bb5b6.
Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

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

</xsl:stylesheet>
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Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.706 jboss-logging 3.4.1.Final

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1.722 python-requests 2.22.0

1.722.1 Available under license:
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1.723 libjpeg 1.2.90-6.el7

1.723.1 Available under license:
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/*
 * rdswitch.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables file Read quantization tables from text file
 * -scans file Read scan script from text file
 * -quality N[,N,...] Set quality ratings
 * -qslots N[,N,...] Set component quantization table selectors
 * -sample HxV[,HxV,...] Set component sampling factors
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdswitch.c

No license file was found, but licenses were detected in source scan.
/*
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-transupp.h
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; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-simd/jfmmxint.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-simd/jimmxint.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-simd/jfss2int.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-simd/jiss2int-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-simd/jfss2int-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-simd/jiss2int-64.asm
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdtrans.c

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

/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jinclude.h

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

/*
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jidctflt.c

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

/ *
* jdmerge.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains code for merged upsampling/color conversion.
* *
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* *
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* R = Y + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr

__Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 9005__
\*B = Y + K4 * Cb
\* only the Y term varies among the group of pixels corresponding to a pair
\* of chroma samples, so the rest of the terms can be calculated just once.
\* At typical sampling ratios, this eliminates half or three-quarters of the
\* multiplications needed for color conversion.
\*
\* This file currently provides implementations for the following cases:
\* YCbCr => RGB color conversion only.
\* Sampling ratios of 2h1v or 2h2v.
\* No scaling needed at upsample time.
\* Corner-aligned (non-CCIR601) sampling alignment.
\* Other special cases could be added, but in most applications these are
\* the only common cases. (For uncommon cases we fall back on the more
\* general code in jdsample.c and jdcolor.c.)
\*/

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate
baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo
is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform
libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the
performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward
TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-
bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by
Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and
in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG
compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdmerge.c
No license file was found, but licenses were detected in source scan.
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/*
 * jdatadst.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatadst.c

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

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jimmmxfst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm

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

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*! 
* jdapistd.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdapistd.c
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/*! 
* jutils.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
/*

rdrle.c

* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

/*

jmemsys.h

* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90-jmemsys.h
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USING THE IJG JPEG LIBRARY

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Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the
compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression,
reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
====================
Data formats

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

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12.
The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
```
jpeg_create_compress(&cinfo);

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image
The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
  cinfo.image_width = Width; /* image width and height, in pixels */
  cinfo.image_height = Height;
  cinfo.input_components = 3; /* # of color components per pixel */
  cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

  jpeg_set_defaults(&cinfo);
  /* Make optional parameter settings here */

4. jpeg_start_compress(...);
```

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
  jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.
Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else’s, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library’s virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
   row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
   jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines.
This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target.
If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more
convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you
Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (e.g., a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.
3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to
Typical code is just

```c
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- `output_width` image width and height, as scaled
- `output_height`
- `out_color_components` # of color components in `out_color_space`
- `output_components` # of color components returned per pixel
- `colormap` the selected colormap, if any
- `actual_number_of_colors` number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling `jpeg_start_decompress()`. This is a little tricky since the `output_XXX` fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)

```c
jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines
actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source
8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

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

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library
without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmennobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 9026
jpeg_set_colorsace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified,
and sets other color-space-dependent parameters appropriately. See
"Special color spaces", below, before using this. A large number of
parameters, including all per-component parameters, are set by this
routine; if you want to twiddle individual parameters you should call
jpeg_set_colorsace() before rather than after.

jpeg_default_colorsace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space,
and calls jpeg_set_colorsace(). This is actually a subroutine of
jpeg_set_defaults(). It's broken out in case you want to change
just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated
quality setting. The quality value is expressed on the 0..100 scale
recommended by IJG (cjpeg's "-quality" switch uses this routine).
Note that the exact mapping from quality values to tables may change
in future IJG releases as more is learned about DCT quantization.
If the force_baseline parameter is TRUE, then the quantization table
entries are constrained to the range 1..255 for full JPEG baseline
compatibility. In the current implementation, this only makes a
difference for quality settings below 25, and it effectively prevents
very small/low quality files from being generated. The IJG decoder
is capable of reading the non-baseline files generated at low quality
settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the
sample tables given in the JPEC spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like “#if JPEG_LIB_VERSION >= 61” is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.
boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);
/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
jpeg_default_qtables(cinfo, force_baseline);
CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find
this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------
Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width	Width and height of image
JDIMENSION image_height
int num_components	Number of color components
J_COLOR_SPACE jpeg_color_space	Colorspace of image
boolean saw_JFIF_marker
TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version	Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit	Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform	Color transform code from Adobe marker
The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

\textbf{J\_COLOR\_SPACE out\_color\_space}

Output color space. \texttt{jpeg\_read\_header()} sets an appropriate default based on \texttt{jpeg\_color\_space}; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to \texttt{JCS\_GRAYSCALE} to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend \texttt{jdc\_color\_c} if you want an unusual conversion.

\texttt{unsigned int scale\_num, scale\_denom}

Scale the image by the fraction \texttt{scale\_num/scale\_denom}. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are \texttt{M/8} with all \texttt{M} from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

\texttt{boolean quantize\_colors}

If set \texttt{TRUE}, colormapped output will be delivered. Default is \texttt{FALSE}, meaning that full-color output will be delivered. The next three parameters are relevant only if \texttt{quantize\_colors} is \texttt{TRUE}.

\texttt{int desired\_number\_of\_colors}

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

\texttt{boolean two\_pass\_quantize}

If \texttt{TRUE}, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is \texttt{TRUE}. Ignored when the application supplies its own color map.

\texttt{J\_DITHER\_MODE dither\_mode}
Selects color dithering method. Supported values are:
JDITHER_NONE  no dithering: fast, very low quality
JDITHER_ORDERED  ordered dither: moderate speed and quality
JDITHER_FS  Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is
described in its own section below.

The output image dimensions are given by the following fields. These are
computed from the source image dimensions and the decompression parameters
by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()
to obtain the values that will result from the current parameter settings.
This can be useful if you are trying to pick a scaling ratio that will get
close to a desired target size. It's also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you
are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map
index per pixel. Otherwise it equals out_color_components. The output arrays
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the
library will still work, but time will be wasted due to unnecessary data
copying. In high-quality modes, rec_outbuf_height is always 1, but some
faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well
go to the trouble of honoring rec_outbuf_height so as to avoid data copying.
(An output buffer larger than rec_outbuf_height lines is OK, but won't
provide any material speed improvement over that height.)

Special color spaces
----------------------

The JPEG standard itself is "color blind" and doesn't specify any particular
color space. It is customary to convert color data to a luminance/chrominance
color space before compressing, since this permits greater compression. The
existing de-facto JPEG file format standards specify YCbCr or grayscale data
(JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special
applications such as multispectral images, other color spaces can be used,
but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely
RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown
color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorsace(). Of course you must select a supported transformation.
jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorsace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.
For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorsace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need.
This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG.
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cerror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...)for fatal errors
WARNMSn(...)for corrupt-data warnings
TRACEMSn(...)for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are
controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- **init_destination (j_compress_ptr cinfo)**
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

- **empty_output_buffer (j_compress_ptr cinfo)**
  This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

- **term_destination (j_compress_ptr cinfo)**
  Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.
term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammmishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte;  /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmaker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOI markers. jdatascrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatascrc.c and jdatadst.c.

I/O suspension

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

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want
control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.
The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE. 
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE. 

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)
The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer.

(Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can’t provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data’s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count
to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It’s much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable “scan script” defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library’s “buffered-image” mode, in which it receives a decoded image
multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.
Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using
the library's input scan counter is easier.) The library automatically reads
data as necessary to complete each requested scan, and jpeg_finish_output()
advances to the next scan or end-of-image marker (hence input_scan_number
will be incremented by the time control arrives back at jpeg_start_output()).
With this technique, data is read from the input file only as needed, and
input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the
buffered image remains available; it can be read additional times by
repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()
sequence. For example, a useful technique is to use fast one-pass color
quantization for display passes made while the image is arriving, followed by
a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what's needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS:    reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI:    reached the EOI marker (end of image)
JPEG_ROW_COMPLETED:  completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED:      suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library's input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part.
Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
    do {
        absorb any waiting input by calling jpeg_consume_input()
        final_pass = jpeg_input_complete(&cinfo);
        adjust output decompression parameters if required
        jpeg_start_output(&cinfo, cinfo.input_scan_number);
        ...
        jpeg_finish_output()
    } while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
    for (;;) {
        absorb any waiting input by calling jpeg_consume_input()
        jpeg_start_output(&cinfo, cinfo.input_scan_number);
        ...
        jpeg_finish_output()
        if (jpeg_input_complete(&cinfo) &&
            cinfo.input_scan_number == cinfo.output_scan_number)
            break;
    }
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)

In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().
A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are
allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
   For example, one could use a fast DCT method for early scans, changing
   to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
   of course this has no impact if not using color quantization. Typically
   one would use ordered dither for initial passes, then switch to
   Floyd-Steinberg dither for the final pass. Caution: changing dither mode
   can cause more memory to be allocated by the library. Although the amount
   of memory involved is not large (a scanline or so), it may cause the
   initial max_memory_to_use specification to be exceeded, which in the worst
   case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
   This setting is relevant only when decoding a progressive JPEG image.
   During the first DC-only scan, block smoothing provides a very "fuzzy" look
   instead of the very "blocky" look seen without it; which is better seems a
   matter of personal taste. But block smoothing is nearly always a win
   during later stages, especially when decoding a successive-approximation
   image: smoothing helps to hide the slight blockiness that otherwise shows
   up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
   You *cannot* change between full-color and quantized output (because that
   would alter the required I/O buffer sizes), but you can change which
   quantization method is used.

When generating color-quantized output, changing quantization method is a
very useful way of switching between high-speed and high-quality display.
The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of
   two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is
   probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However,
only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different
working-storage requirements, the library requires you to indicate which
one(s) you intend to use before you call jpeg_start_decompress(). (If we did
not require this, the max_memory_to_use setting would be a complete fiction.)
You do this by setting one or more of these three cinfo fields to TRUE:
enable_1pass_quant Fixed color cube colormap
enable_external_quant Externally-supplied colormap
enable_2pass_quant Two-pass custom colormap
All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be
tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications. To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer’s responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will
be emitted unless their sent_tables flag is already TRUE, and then all the
sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files
is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters() for
an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table(j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"): 
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);

    /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}

for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a
constant JQUANT_TBL object is not safe. If the incoming file happened to
contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers.

(NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.
You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:
```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the
markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

jpeg_save_markers(cinfo, marker_code, length_limit)

where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.

(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header. to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.
If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
------------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampling data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces).
You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampling row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorsapce() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than DCTSIZE samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
        v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
        v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampling_width = 101 and width_in_blocks = 13 for Y,
downsampling_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row
of Y data is dummy, so it doesn't matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing:
you cannot ask for rescaling or color quantization, for instance. More
seriously, you must deal with the color space and sampling factors present in
the incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to
verify that the color space and sampling factors are ones you can handle.
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is
the same as for raw-data compression). The buffer you pass must be large
enough to hold the actual data plus padding to DCT-block boundaries. As with
compression, any entirely dummy DCT blocks are not processed so you need not
allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager’s access_virt_barray method (see Memory management, below, and also read structure.txt’s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component’s comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don’t need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the
decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().
Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)
When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image
buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors
is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES...
for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of
the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
shorts at least 16 bits wide
ints at least 16 bits wide
longs at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

The IJG code is designed to work efficiently in 80x86 "small" or "medium"
memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table).

Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains output colorspace conversion routines.
* */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
* jidctred.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
* 
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M) algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step with an 8-to-4 step that produces the four averages of two adjacent outputs (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end of the normal LL&M code, then simplifying as much as possible.
* 
* 1x1 is trivial: just take the DC coefficient divided by 8.
* 
* See jidctint.c for additional comments.
* */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdctred.c
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/*
* jccolor.c
*
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* For conditions of distribution and use, see the accompanying README file.
* This file contains input colorspace conversion routines.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups".  A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally.  The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended * for cleaning up color-dithered GIF input files (if you find it inadequate,* we suggest using an external filtering program such as pnmconvol). When * enabled, each input pixel P is replaced by a weighted sum of itself and its * eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF. * where SF = (smoothing_factor / 1024). * Currently, smoothing is only supported for 2h2v sampling factors.

*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
 * jcoeffct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcoeffct.c
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; jcolsamp.inc - private declarations for color conversion & up/downsampling ;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB ;
; Based on ; x86 SIMD extension for IJG JPEG library ; Copyright (C) 1999-2006, MIYASAKA Masaru. ; For conditions of distribution and use, see copyright notice in jsimdext.inc ; ; [TAB8]

; -----------------------------------------------

; pseudo-resisters to make ordering of RGB configurable
; %if RGB_RED == 0
  %define mmA mm0
  %define mmB mm1
  %define xmmA xmm0
  %define xmmB xmm1
%elif RGB_GREEN == 0
  %define mmA mm2
  %define mmB mm3
  %define xmmA xmm2
  %define xmmB xmm3
%elif RGB_BLUE == 0
  %define mmA mm4
  %define mmB mm5
  %define xmmA xmm4
  %define xmmB xmm5
%else
  %define mmA mm6
  %define mmB mm7
  %define xmmA xmm6
  %define xmmB xmm7
%endif

%if RGB_RED == 1
  %define mmC mm0
  %define mmD mm1
  %define xmmC xmm0
  %define xmmD xmm1
%elif RGB_GREEN == 1
  %define mmC mm2
  %define mmD mm3
  %define xmmC xmm2
  %define xmmD xmm3
%elif RGB_BLUE == 1
  %define mmC mm4
  %define mmD mm5
  %define xmmC xmm4
  %define xmmD xmm5
%else
  %define mmC mm6
  %define mmD mm7
  %define xmmC xmm6
  %define xmmD xmm7
%endif

%if RGB_RED == 2
  %define mmE mm0
  %define mmF mm1
/*
* rdbmp.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdbmp.c

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/*
* jcmarker.c
*
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* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmarker.c

No license file was found, but licenses were detected in source scan.
/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100
image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and
its about time they become a part of history only. They are too small, come from data sources too old and are
available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are
photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects
of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


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/*
 * jdatasrc-tj.c
 *
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 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt

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 *
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*
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* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE 
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90.java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90.java/TJUnitTest.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90.java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90.java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90.java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/turbojpeg-jni.c

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

/*
  * jdpostct.c
  *
  * Copyright (C) 1994-1996, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains the decompression postprocessing controller.
  * This controller manages the upsampling, color conversion, and color
  * quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2011 D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
TurboJPEG Java Wrapper
========================

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpegturbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
; This software is provided 'as-is', without any express or implied
; warranty. In no event will the authors be held liable for any damages
; arising from the use of this software.
;
; Permission is granted to anyone to use this software for any purpose,
; including commercial applications, and to alter it and redistribute it
; freely, subject to the following restrictions:
;
; 1. The origin of this software must not be misrepresented; you must not
; claim that you wrote the original software. If you use this software
; in a product, an acknowledgment in the product documentation would be
; appreciated but is not required.
;
; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
;
; 3. This notice may not be removed or altered from any source distribution.
;
;
; ==========================================================================
 System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16


%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; -----(nasm -fwin64 -DWIN64 ...)------
 ; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name			; foo() -> foo

%elifdef OBJ32; -----(nasm -fobj -DOBJ32 ...)----------
 ; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; -----(nasm -felf[64] -DELF ...)-------------
 ; * Linux
 ; * *BSD family Unix using elf format
 ; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_ ; ELF supports PIC
%define EXTN(name)  name			; foo() -> foo

%elifdef AOUT; ----(nasm -faout/aout -DAOUT ...)--
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT    .text
%define SEG_CONST   .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT    .text  ;align=16	; nasm doesn't accept align=16. why?
%define SEG_CONST   .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL  _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT    .text
%define SEG_CONST   .data

%endif; ----------------------------------------------

;==============================================================================

;-----------------------------------------------------------------------------
;  Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%endif; -----------------------------------------------------------------------
%define SIZEOF_POINTER SIZEOF_DWORD : sizeof(POINTER)
%define POINTER_BIT DWORD_BIT : sizeof(POINTER)*BYTE_BIT
%endif

%define INT dword ; signed integer type
%define SIZEOF_INT SIZEOF_DWORD : sizeof(INT)
%define INT_BIT DWORD_BIT : sizeof(INT)*BYTE_BIT

%define FP32 dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD : sizeof(FP32)
%define FP32_BIT DWORD_BIT : sizeof(FP32)*BYTE_BIT

%define MMWORD qword ; int64 (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD : sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT : sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_OWORD : sizeof(XMMWORD)
%define XMMWORD_BIT OWORD_BIT : sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; -----------------------------------------------------------------------------
; External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ %+ name		; foo() -> _foo
%endif

; -----------------------------------------------------------------------------
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -------------------------------------------
%ifidn GOT_SYMBOL, _MACHO_PIC_ ; ---------------

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got, sym) (got) + (sym) - const_base

%imacro get_GOT 1
; NOTE: this macro destroys ecx resister.
call %geteip
addecx, byte (%ref - $)
jmp short %adjust
%geteip:
movecx, POINTER [esp]
ret
%adjust:
pushebp
xorebp, ebp; ebp = 0
%ifidn %1, ebx; (%1 == ebx)
; db 0x8D, 0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D, 9C, E9, (offset32)
db0x8D, 0x9C; 8D, 9C
jmp near const_base; E9, (const_base-%ref)
%ref:
%else; (%1 != ebx)
; db 0x8D, 0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%ref)] ; 8D, 8C, E9, (offset32)
db0x8D, 0x8C; 8D, 8C
jmp near const_base; E9, (const_base-%ref)
%ref: mov %1, ecx
%endif; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ ---------------

%define GOTOFF(got, sym) (got) + (sym) - const_base

%imacro get_GOT 1
extern GOT_SYMBOL

call %%%geteip

add %1, GOT_SYMBOL + $$ - $ wrt ..gotpc

jmpshort %%%done

%%geteip:

mov %1, POINTER [esp]

ret

%%%done:

%%%%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ----------------

%imacro pushpic1.nolist

push %1

%endmacro

%imacro poppic1.nolist

pop %1

%endmacro

%imacro movpic2.nolist

mov %1, %2

%endmacro

%else; !PIC -----------------------------------------

%define GOTOFF(got, sym) (sym)

%imacro get_GOT1.nolist

%endmacro

%imacro pushpic1.nolist

%endmacro

%imacro poppic1.nolist

%endmacro

%imacro movpic2.nolist

%endmacro

%endif; PIC -----------------------------------------

; --------------------------------------------------------------------------

; Align the next instruction on {2,4,8,16,..}-byte boundary.
; "ALIGN n.m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)

%define FILLB(b,n)  ($$-(b)) & ((n)-1)

%imacro alignx 1-2.nolist 0xFFFF

%%bs:
times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) 

db 0x90                               ; nop

times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 

%imacro alignx 1-2.nolist 0xFFF
db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB(S,%1)/7 \  
db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB(S,%1)/6 \  
db 0x8D,0xAD,0x00,0x00,0x00,0x00      ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB(S,%1)/4 \  
db 0x8D,0x6C,0x25,0x00                ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB(S,%1)/3 \  
db 0x8D,0x6D,0x00                     ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB(S,%1)/2 \  
db 0x8B,0xED                          ; mov ebp,ebp
 times MSKLE(FILLB(%%bs,%1),%2) & FILLB(S,%1)/1 \  
db 0x90                               ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__

%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub   rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub   rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add   rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]

%endmacro

%endif WIN64

%endif __x86_64__

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 9091
add _rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif
%endif

; --------------------------------------------------------------------------
;  Defines picked up from the C headers
;
%include "jsimdcfg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-
No license file was found, but licenses were detected in source scan.

/*
* jcarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy encoding routines for JPEG
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jcarith.c

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Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/cdjpeg.c

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

/*
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/cdjpeg.c

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

/*
* jdhuff.c
*
*/
This file was part of the Independent JPEG Group's software:
Copyright (C) 1991-1997, Thomas G. Lane.

Modifications:
Copyright (C) 2009-2011, D. R. Commander.

For conditions of distribution and use, see the accompanying README file.

This file contains Huffman entropy decoding routines.

Much of the complexity here has to do with supporting input suspension.
If the data source module demands suspension, we want to be able to back
up to the start of the current MCU. To do this, we copy state variables
into local working storage, and update them back to the permanent
storage only upon successful completion of an MCU.

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CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
/*
 * jquant2.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
 * fundamental assumptions even hold with an irregularly spaced color map.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jquant2.c

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

/*
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jquant2.c

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

/*
* cjpeg.c
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
  *cjpeg [options] inputfile outputfile
  *cjpeg [options] [inputfile]
  * In the second style, output is always to standard output, which you'd
  * normally redirect to a file or pipe to some other program. Input is
  * either from a named file or from standard input (typically redirected).
  * The second style is convenient on Unix but is unhelpful on systems that
  * don't support pipes. Also, you MUST use the first style if your system
  * doesn't do binary I/O to stdin/stdout.
  * To simplify script writing, the "-outfile" switch is provided. The syntax
  *cjpeg [options] -outfile outputfile inputfile
  * works regardless of which command line style is used.
  */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.
By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination
modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.
The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done
by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:
1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.
   The individual processing modules to be used in this run are selected
   and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed
    and calls each active processing module to configure itself
    appropriately at the beginning of each pass. End-of-pass processing,
    where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing
module may contain several possible implementations of a particular method,
which it will select among when given its initialization call. The master
control code need only be concerned with decisions that affect more than
one module.

2. Data buffering control. A separate control module exists for each
   inter-processing-step data buffer. This module is responsible for
   invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:

   input data => processing step A => buffer => processing step B => output data
   |     |     |      |
   ------------------ controller ------------------

   The controller knows the dataflow requirements of steps A and B: how much data
   they want to accept in one chunk and how much they output in one chunk. Its
   function is to manage its buffer and call A and B at the proper times.

   A data buffer control module may itself be viewed as a processing step by a
   higher-level control module; thus the control modules form a binary tree with
   elementary processing steps at the leaves of the tree.

   The control modules are objects. A considerable amount of flexibility can
   be had by replacing implementations of a control module. For example:
   * Merging of adjacent steps in the pipeline is done by replacing a control
     module and its pair of processing-step modules with a single processing-
     step module. (Hence the possible merges are determined by the tree of
     control modules.)
   * In some processing modes, a given interstep buffer need only be a "strip"
     buffer large enough to accommodate the desired data chunk sizes. In other
     modes, a full-image buffer is needed and several passes are required.
     The control module determines which kind of buffer is used and manipulates
     virtual array buffers as needed. One or both processing steps may be
     unaware of the multi-pass behavior.
In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --|
    |                              |-- Downsampling
    | Main controller --|
     |                  |-- Forward DCT, quantize
     |                     |-- Coefficient controller --|
                     |---- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the
preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object’s methods to change error handling.
* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
    |-- Coefficient controller --|
          |-- Dequantize, Inverse DCT
Main controller --|
          |-- Upsampling
    |-- Postprocessing controller --| |-- Colorspace conversion
          |-- Color quantization
          |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.
* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and
quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.
A full-image coefficient array is only created if the JPEG file has multiple
scans (or if the application specifies buffered-image mode anyway). When
reading a single-scan file, the coefficient controller normally creates only
a one-MCU buffer, so input and output processing must run in lockstep in this
case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must
be very careful with shared variables in the cinfo data structure. Each
variable that can change during the course of decompression must be
classified as belonging to data input or data output, and each section must
look only at its own variables. For example, the data output section may not
depend on any of the variables that describe the current scan in the JPEG
file, because these may change as the data input section advances into a new
scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the
file as one pass when buffered-image mode is not used, and to ignore data
input work completely when buffered-image mode is used. Note that the
library has no reliable way to predict the number of passes when dealing
with a progressive JPEG file, nor can it predict the number of output passes
in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because
there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char,
(signed) char, or short. Short will be used if samples wider than 8 bits are
to be supported (this is a compile-time option). Otherwise, unsigned char is
used if possible. If the compiler only supports signed chars, then it is
necessary to mask off the value when reading. Thus, all reads of JSAMPLE
values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps
simplify correct rounding during downsampling, etc. The JPEG standard's
specification that sample values run from -128..127 is accommodated by
subtracting 128 from the sample value in the DCT step. Similarly, during
decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use.
The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF: a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]: an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library
The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require
the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines
without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.
Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.
A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)
- jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
- jpeg_mem_available estimate available memory
- jpeg_open_backing_store create a backing-store object
- read_backing_store, manipulate a backing-store object
- write_backing_store,
- close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/transupp.c
No license file was found, but licenses were detected in source scan.

/
* jcmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
*
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/**
 * jmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jmarker.c
No license file was found, but licenses were detected in source scan.

/**
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
/*
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,
* this code has been modified to output "uncompressed GIF" files.
* There is no trace of the LZW algorithm in this file.
**************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/
/*
* This code is loosely based on pmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrgif.c

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

; For conditions of distribution and use, see copyright notice in jsimdext.inc
/*
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90/jquant1.c

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* 3. This notice may not be removed or altered from any source distribution.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90/simd/jsimd_arm_neon.S

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

/*
 *
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */
/*
 * jdatadst-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

/*
 * Copyright (C)2011 D. R. Commander. All Rights Reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions are met:
 * - Redistributions of source code must retain the above copyright notice,
 *   this list of conditions and the following disclaimer.
 * - Redistributions in binary form must reproduce the above copyright notice,
 *   this list of conditions and the following disclaimer in the documentation
 *   and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 *   contributors may be used to endorse or promote products derived from this
 *   software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 */
package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in

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

/*
 * jdcolext.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcolext.c

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/*
 * wrfle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 */
* The Utah Raster Toolkit library is required (version 3.1 or later).
* These routines may need modification for non-Unix environments or
  specialized applications. As they stand, they assume output to
  an ordinary stdio stream.
* Based on code contributed by Mike Lijewski,
  with updates from Robert Hutchinson.
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2-90-tgz/libjpeg-turbo-1.2-90-tar-gz/libjpeg-
turbo-1.2.90/wrrle.c

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IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
}

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/License.rtf
No license file was found, but licenses were detected in source scan.

*/
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* 
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* 
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
* /

/>
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
* /
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stdint.h> file. */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition. */
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these. */
#ifdef JPEG_CJPEG_DJPEG
/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can’t cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#define TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it’s not as important.
*/
#define NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don’t. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#define DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#define PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2.90/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/
/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 *
 /* Portions of this code are based on the PBMPPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
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 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */

/*
 * jdhufl.h
 *
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* Modifications:
* Copyright (C) 2010-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains declarations for Huffman entropy decoding routines 
* that are shared between the sequential decoder (jdhuff.c) and the 
* progressive decoder (jdpuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdhuff.h

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

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*
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* modification, are permitted provided that the following conditions are met:
* 
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* and/or other materials provided with the distribution.
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* software without specific prior written permission.
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* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/TJBench.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90/turbojpeg.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/tjbench.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/turbojpeg.c

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

/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdmrgext.c

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

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

*/

* jsimd_x86_64.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

*/

* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

*/

* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

/*
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
*
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/

/*
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/

/*
* jQuery UI 1.7.2
* 
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
* 
* http://docs.jquery.com/UI
*/

/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
*/
* @author Ariel Flesler
* @version 1.3.2
*/

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

/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jchuff.c

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

/*
 * jcapimin.c
 */

* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcapimin.c

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

/*
 * jddctmgr.c
 */

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/
No license file was found, but licenses were detected in source scan.

/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

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

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

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

/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdct.h
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_arm.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on
 * ARM architecture.
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimd/jsimd_arm.c
No license file was found, but licenses were detected in source scan.

/*
* jdphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy decoding routines for progressive JPEG.
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64,
and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as
libjpeg, all else being equal. On other types of systems, libjpeg-turbo can
still outperform libjpeg by a significant amount, by virtue of its
highly-optimized Huffman coding routines. In many cases, the performance of
libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less
powerful but more straightforward TurboJPEG API. Libjpeg-turbo also features
colorspace extensions that allow it to compress from/decompress to 32-bit and
big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java
interface.
libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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*******************************************************************************
**     Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:
TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

============================================
Installation Directory
============================================

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

============================================
Replacing libjpeg at Run Time
============================================

Un*x
----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/[lib]:SLD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
(({lib}) = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.
Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

C_PATH=c:/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=c:/libjpeg-turbo-gcc[64]/lib

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo{64}\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo{64}\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

Colorsace Extensions
libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

- JCS_EXT_RGB /* red/green/blue */
- JCS_EXT_RGBX /* red/green/blue/x */
- JCS_EXT_BGR /* blue/green/red */
- JCS_EXT_BGRX /* blue/green/red/x */
- JCS_EXT_XBGR /* x/blue/green/red */
- JCS_EXT_XRGB /* x/red/green/blue */
- JCS_EXT_RGBA /* red/green/blue/alpha */
- JCS_EXT_BGRA /* blue/green/red/alpha */
- JCS_EXT_ABGR /* alpha/blue/green/red */
- JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```c
#define JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#define JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.
libjpeg v7 and v8 API/ABI Emulation

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:

- Fully supported:
  - libjpeg: IDCT scaling extensions in decompressor
    libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)
  - libjpeg: arithmetic coding
  - libjpeg: In-memory source and destination managers
    See notes below.
  - cjpeg: Separate quality settings for luminance and chrominance
    Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)
  - cjpeg: 32-bit BMP support
-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not
supported.

-- Lossless RGB JPEG files
   This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
-----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=======================================
In-Memory Source/Destination Managers
=======================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a
function in a library until that function is actually used. Thus, if a program
is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(),
that program will not fail if run against an older version of libjpeg-turbo or
against libjpeg v7 until the program actually tries to call jpeg_mem_src() or
jpeg_mem_dest(). Such is not the case on Windows. If a program is built
against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(),
then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory
source/destination manager functions. See their respective man pages for more
details.

*******************************************************************************
**  Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg
v6b. The one exception to this is when using the floating point DCT/IDCT, in
which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to
be identical (the accuracy of the floating point DCT/IDCT is constant when
using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on
the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is
still using the same algorithms as libjpeg v6b, so there are several specific
cases in which libjpeg-turbo cannot be expected to produce the same output as
libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8
  implements those scaling algorithms a bit differently than libjpeg v6b does,
  and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this
  with its DCT/IDCT scaling algorithms rather than with a separate
downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
  because the floating point IDCT algorithm was modified in libjpeg v8a to
  improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or
  "non-smooth") chrominance upsampling, because libjpeg v8 does not support
  merged upsampling with scaling factors > 1.

*******************************************************************************
**  Performance Pitfalls
*******************************************************************************
*******************************************************************************
===============
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/README-turbo.txt

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

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/cdjpeg.h

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

/*
* jsimd_i386.c

* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_i386.c

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

/
* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,   *
* the ability to read GIF files has been removed from the IJG distribution.*
* Sorry about that.                                                      *
**************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdgif.c

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

/*
* jdinput.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */
libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README-turbo.txt for information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
==============================================

This distribution contains a release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

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

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

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

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

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

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

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

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

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.
The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in “The Data Compression Book” by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
=================

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
=================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/README

No license file was found, but licenses were detected in source scan.

/ * jpegint.h

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegint.h

No license file was found, but licenses were detected in source scan.

/ *
* jcparam.c

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
  * Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
  * must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcparam.c

No license file was found, but licenses were detected in source scan.

/ *
* jdapimin.c

* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in j叩astd.c. But also see j叩api.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/j叩amin.c
No license file was found, but licenses were detected in source scan.

/*
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

%ifarch x86_64
%define __lib lib64
%else
%define __lib lib
%endif

Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries
#--->Source: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style
BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif
Obsoletes: turbojpeg

%description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

#--->%prep
#--->%setup -q
#--->%build
#--->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#--->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install
rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampleredir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}
mkdir -p $RPM_BUILD_ROOT/usr/include
mv $RPM_BUILD_ROOT/opt/%{name}/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs /usr/include/turbojpeg.h $RPM_BUILD_ROOT/opt/%{name}/include/
ln -fs /usr/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/_defaultdocdir
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT/_defaultdocdir/%{name}-%{version}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig
%clean
rm -rf $RPM_BUILD_ROOT
%files
%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}
%doc %{_defaultdocdir}/%{name}-%{version}/*
%dir /opt/%{name}
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}
%ifarch x86_64
%else
/opt/%{name}/lib32
%endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so
/opt/%{name}/%{__lib}/libjpeg.a
/opt/%{name}/%{__lib}/libturbojpeg.a
/usr/%{__lib}/libturbojpeg.so.0.0.0
/usr/%{__lib}/libturbojpeg.so.0
/usr/%{__lib}/libturbojpeg.a
/usr/%{__lib}/libturbojpeg.so
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
* In buffered-image mode, this controller is the interface between
  input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/ *
* jcphuff.c
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines for progressive JPEG.
* We do not support output suspension in this module, since the library
  currently does not allow multiple-scan files to be written with output
* suspension.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcphuff.c
No license file was found, but licenses were detected in source scan.

/ *
* djpeg.c
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.

* Two different command line styles are permitted, depending on the
  compile-time switch TWO_FILE_COMMANDLINE:
* `djpeg [options]  inputfile outputfile`
  * In the second style, output is always to standard output, which you'd
  * normally redirect to a file or pipe to some other program. Input is
  * either from a named file or from standard input (typically redirected).
  * The second style is convenient on Unix but is unhelpful on systems that
  * don't support pipes. Also, you MUST use the first style if your system
  * doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
  `djpeg [options]  -outfile outputfile  inputfile`
  * works regardless of which command line style is used.

*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/release/deb-control.tmpl
No license file was found, but licenses were detected in source scan.

; jdct.inc - private declarations for forward & reverse DCT subsystems
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
; %define RANGE_MASK (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

/ * jdsample.c 
  * 
  * This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1991-1996, Thomas G. Lane.
  * Modifications:
  * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
  * Copyright (C) 2010, D. R. Commander.
  * For conditions of distribution and use, see the accompanying README file.
  * 
  * This file contains upsampling routines.
  * 
  * Upsampling input data is counted in "row groups".  A row group
  * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
  * sample rows of each component.  Upsampling will normally produce
  * max_v_samp_factor pixel rows from each row group (but this could vary
  * if the upsampler is applying a scale factor of its own).
  * 
  * An excellent reference for image resampling is
  */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)

==================
[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with
libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Unix systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy
upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form ‘’%define’ expects a macro identifier’’.

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.
1.1.90 (1.2 beta1)

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when...
the application was invoked using I/O redirection
(jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
======

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.
[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize
cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was
enabled. This specifically caused the jpegoptim program to fail if it was
linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8
emulation.

[6] Eliminated excessive I/O overhead that occurred when reading BMP files in
cjpeg.

[7] Eliminated errors in the output of cjpeg on Windows that occurred when the
application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct
results when the JPEG quality is >= 98 and the fast integer forward DCT is
used. Thus, the non-SIMD quantization function is now used for those cases,
and libjpeg-turbo should now produce identical output to libjpeg v6b in all
cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for
JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically
use the slow integer forward DCT when generating JPEG images of quality 96 or
greater. This reduces compression performance by as much as 15% for these
high-quality images but is necessary to ensure that the images are perceptually
lossless. It also ensures that the library can avoid the performance pitfall
created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.

[4] Fixed visual artifacts in grayscale JPEG compression caused by a typo in
the RGB-to-luminance lookup tables.

[5] The Windows distribution packages now include the libjpeg run-time programs
(cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and
tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
================
[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====  

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90

Initial release

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpeglib.h

No license file was found, but licenses were detected in source scan.

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimd_none.c

No license file was found, but licenses were detected in source scan.

# Copyright (C)2009-2011 D. R. Commander. All Rights Reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are met:
#
# - Redistributions of source code must retain the above copyright notice,
# this list of conditions and the following disclaimer.

#!/bin/sh

if [ ! "id -u" = "0" ]; then
    echo "ERROR: This script must be executed as root"
    exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
    LSBOM='lsbom -s -f -l $RECEIPT/Contents/Archive.bom'
else
    LSBOM='pkgutil --files $MACPACKAGE'
fi

mylsbom()
{
    $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
    if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
    rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
    rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
    rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
    rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
    rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
    rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1

if [ -d $RECEIPT ]; then
    echo Removing package receipt ...
    rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
    echo Forgetting package $MACPACKAGE ...
    pkgutil --forget $MACPACKAGE
fi

exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/uninstall
No license file was found, but licenses were detected in source scan.

/*
 * rdrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
This file contains routines to read input images in Targa format.

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed Targa format).

Based on code contributed by Lee Daniel Crocker.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

This file contains probability estimation tables for common use in arithmetic entropy encoding and decoding routines.

This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

This file was part of the Independent JPEG Group's software: Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding. Modifications: Copyright (C) 2010, D. R. Commander.

This file contains a command-line user interface for JPEG transcoding. It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

*/

* jcomapi.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

*/

* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
*
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

*/
* jsimddct.h
* 
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* *
* */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
* jchuff.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains declarations for Huffman entropy encoding routines
* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.
* */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/doc/html/search/search.js
No license file was found, but licenses were detected in source scan.

/*
* jdmainct.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* */
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
* 
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*/ 
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* 
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
* 
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*/ 
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
  * jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
  * whole compression library into a transcoder.
*/

Found in path(s):
  * /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
    turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
  to establish a common coding style. The goal of using similar coding styles
  is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
  Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
  Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

    /*
    *  Block comments in this style.
    */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)
We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```c
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.
The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/coderules.txt

No license file was found, but licenses were detected in source scan.

/*
  * jmemnobs.c
  *
  * Copyright (C) 1992-1996, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 *   virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 *   backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/**
 * rdjpgcom.c
 *
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 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdjpgcom.c
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/**
 * jidctfst.c
 *
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 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 */
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
  * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
  * Japanese, but the algorithm is described in the Pennebaker & Mitchell
  * JPEG textbook (see REFERENCES section in file README). The following code
  * is based directly on figure 4-8 in P&M.
  * While an 8-point DCT cannot be done in less than 11 multiplies, it is
  * possible to arrange the computation so that many of the multiplies are
  * simple scalings of the final outputs. These multiplies can then be
  * folded into the multiplications or divisions by the JPEG quantization
  * table entries. The AA&N method leaves only 5 multiplies and 29 adds
  * to be done in the DCT itself.
  * The primary disadvantage of this method is that with fixed-point math,
  * accuracy is lost due to imprecise representation of the scaled
  * quantization values. The smaller the quantization table entry, the less
  * precise the scaled value, so this implementation does worse with high-
  * quality-setting files than with low-quality ones.
 */

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*/opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jidctfst.c
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/*
 * jidctint.c
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 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsample from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsample.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
* /

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 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */
/*
 * rdppm.c
 *
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 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdin stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
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 *
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 */
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### 1.7.24 openssl-fipscanister unknown

### 1.7.25 bouncy-castle 1.46

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1.726 libvorbis 1.3.3-8.el7.1

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1.727 javassist 3.20.0-GA
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/FloatMemberValue.java
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java

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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar.javassist/expr/Handler.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar.javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar.javassist/CtNewConstructor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar.javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar.javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar.javassist/tools/web/Webserver.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar.javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar.javassist/bytecode/StackMap.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-jar.javassist/runtime/DotClass.java
1.729 coreutils 8.22 24.el7

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/* chown-core.c -- core functions for changing ownership.  * Copyright (C) 2000-2013 Free Software Foundation, Inc.  *

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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

#include <config.h>
#include <stdio.h>
#include <sys/types.h>
#include <pwd.h>
#include <grp.h>

#include "system.h"
#include "chown-core.h"
#include "error.h"
#include "ignore-value.h"
#include "quote.h"
#include "root-dev-ino.h"
#include "xfts.h"
#define FTSENT_IS_DIRECTORY(E) 
   ((E)->fts_info == FTS_D) || (E)->fts_info == FTS_DC || (E)->fts_info == FTS_DP || (E)->fts_info == FTS_DNR)

enum RCH_status
{
   /* we called fchown and close, and both succeeded */
   RC_ok = 2,

   /* required_uid and/or required_gid are specified, but don't match */
   RC_excluded,

   /* SAME_INODE check failed */
   RC_inode_changed,

   /* open/fchown isn't needed, isn't safe, or doesn't work due to permissions problems; fall back on chown */
   RC_do_ordinary_chown,

   /* open, fstat, fchown, or close failed */
   RC_error
};

extern void chopt_init (struct Chown_option *chopt)
{
   chopt->verbosity = V_off;
   chopt->root_dev_ino = NULL;
   chopt->affect_symlink_referent = true;
   chopt->recurse = false;
   chopt->force_silent = false;
   chopt->user_name = NULL;
   chopt->group_name = NULL;
}

extern void chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
   /* Deliberately do not free chopt->user_name or ->group_name. They're not always allocated. */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory, and return it. If there's no corresponding group name, use the decimal representation of the ID */
extern char *

gid_to_name (gid_t gid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct group *grp = getgrgid (gid);
    return xstrdup (grp ? grp->gr_name
        : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
        : umaxtostr (gid, buf));
}

extern char *

uid_to_name (uid_t uid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct passwd *pwd = getpwuid (uid);
    return xstrdup (pwd ? pwd->pw_name
        : TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
        : umaxtostr (uid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc’d memory, 
   and return it. If there's no corresponding user name, use the decimal 
   representation of the ID. */

extern char *

user_group_str (char const *user, char const *group)
{
    char *spec = NULL;

    if (user)
    {
        if (group)
        {
            spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
            stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
        }
        else
        {
            spec = xstrdup (user);
        }
    }
    else if (group)
    {
        spec = xstrdup (group);
    }
static void
describe_change (const char *file, enum Change_status changed,
    char const *old_user, char const *old_group,
    char const *user, char const *group)
{
    const char *fmt;
    char *old_spec;
    char *spec;

    if (changed == CH_NOT_APPLIED)
    {
        printf (_("neither symbolic link %s nor referent has been changed
"),
            quote (file));
        return;
    }

    spec = user_group_str (user, group);
    old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

    switch (changed)
    {
    case CH_SUCCEEDED:
        fmt = (user ? _("changed ownership of %s from %s to %s\n")
            : group ? _("changed group of %s from %s to %s\n")
            : _("no change to ownership of %s\n");
        break;
    case CH_FAILED:
        if (old_spec)
        {
            fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
                : group ? _("failed to change group of %s from %s to %s\n")
                : _("failed to change ownership of %s\n"));
        }
        else
        {
            fmt = (user ? _("failed to change ownership of %s to %s\n")
                : group ? _("failed to change group of %s to %s\n")
                : _("failed to change ownership of %s\n"));
            free (old_spec);
            old_spec = spec;
    }
spec = NULL;
}
break;
case CH_NO_CHANGE_REQUESTED:
    fmt = (user ? ("ownership of %s retained as %s\n")
        : group ? ("group of %s retained as %s\n")
        : ("ownership of %s retained\n");
    break;
default:
    abort ();
}
printf (fmt, quote (file), old_spec, spec);
free (old_spec);
free (spec);
}
/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.

The 'safely' part above means that we can't simply use chown(2),
since FILE might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor.
We first call lstat and verify that the dev/inode match those from
the preceding stat call, and only then, if appropriate (given the
required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
special file that might have undesirable side effects when opening.
In this case the caller can use the less-safe ordinary chown.

Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
    struct stat const *orig_st,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid)
{
    enum RCH_status status = RC_ok;
    struct stat st;
    int open_flags = O_NONBLOCK | O_NOCTTY;
    int fd;
    if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
return RC_do_ordinary_chown;

if (! S_ISREG (orig_st->st_mode))
{
    if (S_ISDIR (orig_st->st_mode))
        open_flags |= O_DIRECTORY;
    else
        return RC_do_ordinary_chown;
}

fd = openat (cwd_fd, file, O_RDONLY | open_flags);
if (! (0 <= fd ||
       (errno == EACCES && S_ISREG (orig_st->st_mode)
        && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags)))))
    return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

if (fstat (fd, &st) != 0)
    status = RC_error;
else if (! SAME_INODE (*orig_st, st))
    status = RC_inode_changed;
else if (((required_uid == (uid_t) -1 || required_uid == st.st_uid) &&
          (required_gid == (gid_t) -1 || required_gid == st.st_gid))

    if (fchown (fd, uid, gid) == 0)
        {
            if (close (fd) == 0)
                status = (RC_ok : RC_error);
            return status;
        }
    else
        {
            status = RC_error;
        }
}

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;

/* Change the owner and/or group of the file specified by FTS and ENT to UID and/or GID as appropriate.
If REQUIRED_UID is not -1, then skip files with any other user ID.
If REQUIRED_GID is not -1, then skip files with any other group ID.
CHOPT specifies additional options.
Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid,
    struct Chown_option const *chopt)
{
    char const *file_full_name = ent->fts_path;
    char const *file = ent->fts_accpath;
    struct stat const *file_stats;
    struct stat stat_buf;
    bool ok = true;
    bool do_chown;
    bool symlink_changed = true;

    switch (ent->fts_info)
    {
    case FTS_D:
        if (chopt->recurse)
            {
            if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
                {
                /* This happens e.g., with "chown -R --preserve-root 0 /" 
                and with "chown -RH --preserve-root 0 symlink-to-root". */
                ROOT_DEV_INO_WARN (file_full_name);
                /* Tell fts not to traverse into this hierarchy. */
                fts_set (fts, ent, FTS_SKIP);
                /* Ensure that we do not process "/" on the second visit. */
                ignore_value (fts_read (fts));
                return false;
            }
            return true;
        }
        break;
    case FTS_DP:
        if (! chopt->recurse)
            return true;
        break;
    case FTS_NS:
        /* For a top-level file or directory, this FTS_NS (stat failed) 
        indicator is determined at the time of the initial fts_open call. 
        With programs like chmod, chown, and chgrp, that modify 
        permissions, it is possible that the file in question is 
        accessible when control reaches this point. So, if this is 
        the first time we've seen the FTS_NS for this file, tell 
        fts_read to stat it "again". */
        if (ent->fts_level == 0 && ent->fts_number == 0)
            {

ent->fts_number = 1;
fts_set (fts, ent, FTS_AGAIN);
return true;
}
if (! chopt->force_silent)
error (0, ent->fts_errno, "cannot access %s",
quote (file_full_name));
ok = false;
break;

case FTS_ERR:
if (! chopt->force_silent)
error (0, ent->fts_errno, "%s", quote (file_full_name));
ok = false;
break;

case FTS_DNR:
if (! chopt->force_silent)
error (0, ent->fts_errno, "cannot read directory %s",
quote (file_full_name));
ok = false;
break;

case FTS_DC:// directory that causes cycles */
if (cycle_warning_required (fts, ent))
{
emit_cycle_warning (file_full_name);
return false;
}
break;

default:
break;
}
if (!ok)
{
do_chown = false;
file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
&& chopt->verbosity == V_off
&& ! chopt->root_dev_ino
&& ! chopt->affect_symlink_referent)
{
do_chown = true;
file_stats = ent->fts_stats;
}
else
{
    file_stats = ent->fts_statp;

    /* If this is a symlink and we're dereferencing them, 
    stat it to get info on the referent. */
    if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
    {
        if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
        {
            if (! chopt->force_silent)
            error (0, errno, _("cannot dereference %s"),
                   quote (file_full_name));
            ok = false;
        }
        file_stats = &stat_buf;
    }

    do_chown = (ok
                   && (required_uid == (uid_t) -1
                       || required_uid == file_stats->st_uid)
                   && (required_gid == (gid_t) -1
                       || required_gid == file_stats->st_gid));
}

/* This happens when chown -LR --preserve-root encounters a symlink-to-/.*
if (ok
        && FTSENT_IS_DIRECTORY (ent)
        && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}

if (do_chown)
{
    if (! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);

        /* Ignore any error due to lack of support; POSIX requires 
        this behavior for top-level symbolic links with -h, and 
        implies that it's required for all symbolic links. */
        if (! ok && errno == EOPNOTSUPP)
        {
            ok = true;
            symlink_changed = false;
        }
}
} }
else
{
/* If possible, avoid a race condition with --from=O:G and without the
(-h) --no-dereference option. If fts's stat call determined
that the uid/gid of FILE matched the --from=O:G-selected
owner and group IDs, blindly using chown(2) here could lead
chown(1) or chgrp(1) mistakenly to dereference a *symlink*
to an arbitrary file that an attacker had moved into the
place of FILE during the window between the stat and
chown(2) calls. If FILE is a regular file or a directory
that can be opened, this race condition can be avoided safely. */

enum RCH_status err
  = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                    required_uid, required_gid);

switch (err)
{
  case RC_ok:
    break;

  case RC_do_ordinary_chown:
    ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
    break;

  case RC_error:
    ok = false;
    break;

  case RC_inode_changed:
    /* FIXME: give a diagnostic in this case? */
  case RC_excluded:
    do_chown = false;
    ok = false;
    break;

  default:
    abort ();
}

/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */
if (do_chown && !ok && ! chopt->force_silent)
  error (0, errno, (uid != (uid_t) -1
       ? _("changing ownership of %s")
         : _("changing group of %s")),
       quote (file_full_name));
}

if (chopt->verbosity != V_off)
{
  bool changed =
      ((do_chown && & ok && symlink_changed)
       && ! ((uid == (uid_t) -1 || uid == file_stats->st_uid)
           && (gid == (gid_t) -1 || gid == file_stats->st_gid));

  if (changed || chopt->verbosity == V_high)
  {
    enum Change_status ch_status =
      (!ok ? CH_FAILED
          : !symlink_changed ? CH_NOT_APPLIED
          : !changed ? CH_NO_CHANGE_REQUESTED
          : CH_SUCCEEDED);
    char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
    char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
    describe_change (file_full_name, ch_status,
        old_usr, old_grp,
        chopt->user_name, chopt->group_name);
    free (old_usr);
    free (old_grp);
  }
}

if ( ! chopt->recurse)
  fts_set (fts, ent, FTS_SKIP);

return ok;
}

/* Change the owner and/or group of the specified FILES.
   BIT_FLAGS specifies how to treat each symlink-to-directory
   that is encountered during a recursive traversal.
   CHOPT specifies additional options.
   If UID is not -1, then change the owner id of each file to UID.
   If GID is not -1, then change the group id of each file to GID.
   If REQUIREDUID and/or REQUIREDGID is not -1, then change only
   files with user ID and group ID that match the non-(1) value(s).
   Return true if successful. */
extern bool
chown_files (char **files, int bit_flags,
   uid_t uid, gid_t gid,
   uid_t required_uid, gid_t required_gid,
   struct Chown_option const *chopt)
{
  bool ok = true;

  /* Use lstat and stat only if they're needed. */
  int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1
   || chopt->affect_symlink_referent
   || chopt->verbosity != V_off)
    ? 0
    : FTS_NOSTAT);

  FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);

  while (1)
  {
    FTSENT *ent;

    ent = fts_read (fts);
    if (ent == NULL)
    {
      if (errno != 0)
      {
        /* FIXME: try to give a better message */
        if (! chopt->force_silent)
          error (0, errno, _ftse_read_failed);
        ok = false;
      }
      break;
    }

    ok &= change_file_owner (fts, ent, uid, gid,
        required_uid, required_gid, chopt);
  }

  if (fts_close (fts) != 0)
  {
    error (0, errno, _fts_close_failed);
    ok = false;
  }

  return ok;
}

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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-->
<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="concat($text, $rest)"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

</xsl:stylesheet>
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1.735 bzip2 1.0.5

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007
1.736 udev 172

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Daniel Savarese <dfs at savarese.org> is the original author of the OROMatcher, PerlTools, AwkTools, and TextTools packages that became the Jakarta-ORO project.

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Harald Kuhn <harald at ontopia.net> updated MatchActionProcessor.processMatches() to accommodate character encodings.

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b) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by a
   written offer, valid for at least three years and valid for as
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 */
#ifndef _STLP_CLIMITS
#define _STLP_CLIMITS

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x108
#include <stl/_prolog.h>
#endif

#if defined (__SUNPRO_CC) && ((__SUNPRO_CC == 0x500) && (__SUNPRO_CC_COMPAT > 4))
#include <usr/include/limits.h>
#elif defined (_STLP_USE_NEW_C_HEADERS)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <climits>
#else
#include _STLP_NATIVE_CPP_C_HEADER(climits)
#endif
#else
#if defined (__BORLANDC__)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <limits.h>
#else
#include _STLP_NATIVE_C_HEADER(limits.h)
#endif
#else
#include <limits.h>
#endif
#endif
#endif /* _STLP_CLIMITS */

// Local Variables:
// mode:C++
// End:

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 */

#ifndef _STLP_VECTOR
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x77
#include <stl/_prolog.h>
define _STLP_VECTOR
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x77)
#ifndef _STLP_INTERNAL_ALGOBASE_H
#include <stl/_algobase.h>
#endif
#ifndef _STLP_INTERNAL_VECTOR_H
#include <stl/_vector.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x77) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <vector>
#else
#include _STLP_NATIVE_HEADER(vector)
#endif
#endif
#endif
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x77)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#ifndef _STLP_VECTOR */

// Local Variables:
// mode:C++
// End:

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 */

#ifndef _STLP_CWCHAR
#endif /* _STLP_CWCHAR */

#ifndef _STLP_OUTERMOST_HEADER_ID

#define _STLP_OUTERMOST_HEADER_ID 0x120
#define _STLP_CWCHAR

#include <stl/_prolog.h>
#endif

#ifndef _STLP_INTERNAL_CWCHAR

#include <stl/_cwchar.h>
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID 0x120

#include_next <cwchar>
#else

#include <stl/_cwchar.h>
#endif

#endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x120) || defined (_STLP_IMPORT_VENDOR_STD)

#define _STLP_NATIVE_CPP_C_HEADER(cwchar)
#endif

#define _STLP_NATIVE_CPP_C_HEADER(cwchar)
#endif

#endif

#endif
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CWCHAR */

// Local Variables:
// mode:C++
// End:

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*/

#ifndef _STLP_NUMERIC

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x49
# include <stl/_prolog.h>
# define _STLP_NUMERIC
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
# ifndef _STLP_INTERNAL_NUMERIC_H
# include <stl/_numeric.h>
# endif
#elif defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <numeric>
#else
# include _STLP_NATIVE_HEADER(numeric)
#endif

#endif /* _STLP_NUMERIC */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/__bitset.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/__bitset.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/__stdexcept.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/__rope.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/char_traits.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/__stdexcept_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/hash_map
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/hash_set
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/__fstream.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/functional
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/__stdexcept_base.c
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*/
#endif _STLP_STREAMBUF

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1066
#include <stl/_prolog.h>
define _STLP_STREAMBUF
#endif

#ifdef (_STLP_OUTERMOST_HEADER_ID == 0x1066) && !
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#endif

#ifndef _STLP_INTERNAL_STREAMBUF
#include <stl/_streambuf.h>
#endif

#ifndef _STLP_NATIVE_HEADER(streambuf)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1066)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_STREAMBUF */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* test_construct.h
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*/

#ifndef _STLP_STRING

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x68
#include <stl/prolog.h>
#define _STLP_STRING
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x68)
#ifndef _STLP_INTERNAL_STRING_H
#include <stl/string.h>
#endif
#ifndef _STLP_STRING_HASH_H
#include <stl/string_hash.h>
#endif
#if !defined (_STLP_USE_NO_IOSTREAMS) && !defined (_STLP_STRING_IO_H)
#include <stl/string_io.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x68) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <string>
#else
#include _STLP_NATIVE_HEADER(string)
#endif
#endif

#endif /* _STLP_STRING */

// Local Variables:
// mode:C++
// End:
Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/string
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 * [http://complement.sourceforge.net]
 * to make it close to JTC1/SC22/WG21 C++ 0x working draft
 * [http://www.open-std.org/Jtc1/sc22/wg21/docs/papers/2008/n2521.pdf]
 */

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ThrowCompare.h

Interface for the ThrowCompare class

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test_slist.cpp

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TestClass.cpp

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* */

#ifndef _STLP_ITERATOR
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x38
#include <stl/_prolog.h>
#define _STLP_ITERATOR
#endif

#define _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x38
#include <stl/_prolog.h>
#define _STLP_ITERATOR
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x38)
# ifndef _STLP_INTERNAL_ITERATOR_H
#  include <stl/_iterator.h>
#  endif
# endif

# ifndef _STLP_INTERNAL_STREAM_ITERATOR_H
#  include <stl/_stream_iterator.h>
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x38) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <iterator>
#  else
#    include _STLP_NATIVE_HEADER(iterator)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x38)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_ITERATOR */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iterator
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/ * boost limits_test.cpp test your <limits> file for important
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_valarray.cpp
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/codecvt.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_messages_facets.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/_stdio_file.h
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* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport-stlport-5.2.1/src/details/fstream_stdio.cpp
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/src/stdio_streambuf.h
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/src/ctype.cpp
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/src/time_facets.cpp
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/ostream.h
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/ostreambuf_iterator.h
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/src/details/fstream_stdio.cpp
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/src/stdio_streambuf.cpp
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/sstream.cpp
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/streambuf.c
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/time_facets.c
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/num_put.cpp
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/src/acquire_release.h
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/streambuf.h
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/complex_trig.cpp
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/sstream.c
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl_/ostream.c

Found in path(s):
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/debug/_string_sum_methods.h
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/pointers/_tools.h
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/pointers/_vector.h
* /opt/cola/permissions/1111286494_1607870159.27/0/stlport-5.2.1/stlport/stl/pointers/_list.h
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#ifndef _STLP_CSTDIO
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x15
#include <stl/_prolog.h>
#else (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_CSTDIO
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
#ifndef _STLP_INTERNAL_CSTDIO
#include <stl/_cstdio.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x15) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstdio>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstdio)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x15)
#if !defined (_STLP_DONT_POP_HEADER_ID)
#include <stl/_epilog.h>
#define _STLP_OUTERMOST_HEADER_ID
#else
#ifdef _STLP_DONT_POP_HEADER_ID
#endif
#endif
#endif

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/user_config.h

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*/

#ifndef _STLP_DEQUE
#ifndef _STLP_OUTERMOST_HEADER_ID
#  define _STLP_OUTERMOST_HEADER_ID 0x22
#  include <stl/_prolog.h>
#  define _STLP_DEQUE
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
#  ifndef _STLP_INTERNAL_DEQUE_H
#    include <stl/_deque.h>
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x22) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <deque>
#  else
#    include _STLP_NATIVE_HEADER(deque)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_DEQUE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/deque
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/opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-stl/config/_windows.h
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ifndef _STLP_ISTREAM

ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1036
#include <stl/_prolog.h>
define _STLP_ISTREAM
#endif

 ifndef _STLP_INTERNAL_ISTREAM
 #include <stl/_istream.h>
 endif

 ifndef _STLP_NO_IOSTREAMS)
 ifndef _STLP_IMPORT_VENDOR_STD))
 include <stl/_ioserr.h>
 ifndef _STLP_INTERNAL_ISTREAM
 include <stl/_istream.h>
 endif
 endif
// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/istream
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* test_hash_map.cpp
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*
*/

#ifndef _STLP_CSETJMP

#ifndef _STLP_OUTERMOST_HEADER_ID

#define _STLP_OUTERMOST_HEADER_ID

#define _STLP_CSETJMP

#endif

#define _STLP_OUTERMOST_HEADER_ID

#define _STLP_CSETJMP

#include <stl/_prolog.h>
#endif

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#if (_STLP_OUTERMOST_HEADER_ID == 0x111)
  #ifndef _STLP_INTERNAL_CSETJMP
    #include <stl/_csetjmp.h>
  #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x111) || defined (_STLP_IMPORT_VENDOR_STD)
  #if defined (_STLP_HAS_INCLUDE_NEXT)
    #include_next <csetjmp>
  #else
    #include _STLP_NATIVE_CPP_C_HEADER(csetjmp)
  #endif
#else
  #endif
#endif /* _STLP_CSETJMP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
  */ /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csetjmp

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* */

#endif _STLP_CWCTYPE

#endif _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x121
# define _STLP_CWCTYPE
# include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
# ifndef _STLP_INTERNAL_CWCTYPE
#   include <stl/_cwctype.h>
# endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x121) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <cwctype>
# else
#   include _STLP_NATIVE_CPP_C_HEADER(cwctype)
# endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CWCTYPE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cwctype
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random_number.cpp

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*/

#ifndef _STLP_CSTRING
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x117
#define _STLP_CSTRING
#include <stl/_prolog.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x117)
#ifndef _STLP_INTERNAL_CSTRING
#include <stl/_cstring.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x117) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstring>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstring)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x117)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CSTRING */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_160780159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstring
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TestClass.h

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SUMMARY: TestClass simulates a class that uses resources. It is designed to
cause exceptions when it is constructed or copied.

***********************************************************************

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 * */

#ifndef _STLP_SET
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x55
#include <stl/_prolog.h>
#define _STLP_SET
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x55)
#ifndef _STLP_INTERNAL_SET_H
#include <stl/_set.h>
#endif
#else
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <set>
#else
#include _STLP_NATIVE_HEADER(set)
#endif
#endif

#ifndef _STLP_SET
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#endif

#ifndef _STLP_INTERNAL_SET_H
#endif

#ifndef _STLP_NATIVE_HEADER(set)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x55)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_SET */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/set
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/file_reporter.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/test_main.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_mini.h
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#ifndef _STLP_QUEUE

#ifndef _STLP_OUTERMOST_HEADER_ID
  #define _STLP_OUTERMOST_HEADER_ID 0x53
  #include <stl/_prolog.h>
  #define _STLP_QUEUE
#else
  #if (_STLP_OUTERMOST_HEADER_ID == 0x53)
    #ifndef _STLP_INTERNAL_QUEUE_H
      #include <stl/_queue.h>
    #endif
  #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x53) || defined (_STLP_IMPORT_VENDOR_STD)
  #if defined (_STLP_HAS_INCLUDE_NEXT)
    #include_next <queue>
  #else
    #include _STLP_NATIVE_HEADER(queue)
  #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
  #include <stl/_epilog.h>
  #undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif

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#endif /* _STLP_QUEUE */

// Local Variables:
// mode:C++
// End:

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 *
 * Modified CRP 7/10/00 for improved conformance / efficiency on insert_unique /
 * insert_equal with valid hint -- efficiency is improved all around, and it is
 * should now be standard conforming for complexity on insert point immediately
 * after hint (amortized constant time).
 *
 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pthread.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/mem.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdlib.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stddef.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/errno.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/limits.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/new.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/time.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_csetjmp.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_wchar.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/exception.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_cstring.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_cwctype.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iomanip.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iomanip.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdio.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_mbstate_t.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdio.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdlib.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_stdlib.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/math.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/string.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/numeric.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/valarray.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_threads.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_deque.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_vector.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tempbuf.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist_base.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_list.c

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 */
/
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 * Boris : simulation technique is used here according to Adobe Open Source License Version 1.0.
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 * Authors: Mat Marcus and Jesse Jones
 * The original version of this source code may be found at
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test_set.cpp

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 */

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Test algo.cpp

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/stl/_string_fwd.h

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test_push_front.h

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 *
*/

#ifndef _STLP_CISO646
#define _STLP_CISO646

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x107
#include <stl/_prolog.h>
#endif

#if !defined(_STLP_WCE_EVC3) && !defined(__BORLANDC__)
#define _STLP_OUTERMOST_HEADER_ID
#endif

#ifndef _STLP_CISO646
#endif

if defined(_STLP_USE_NEW_C_HEADERS)
# define _STLP_CISO646 0x107
#include <stl/_prolog.h>
#endif

if !defined(_STLP_WCE_EVC3) && !defined(__BORLANDC__)
# if defined(_STLP_USE_NEW_C_HEADERS)
# if defined(_STLP_HAS_INCLUDE_NEXT)
# include_next <ciso646>
# else
# include _STLP_NATIVE_CPP_C_HEADER(ciso646)
# endif
# else
# include <iso646.h>
# endif /* _STLP_USE_NEW_C_HEADERS */
#endif

#ifdef _STLP_OUTERMOST_HEADER_ID
  include <stl/_epilog.h>
  undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CISO646 */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ciso646
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* *
* /
#endif

ifdef _STLP_OUTERMOST_HEADER_ID
  define _STLP_OUTERMOST_HEADER_ID 0x103
  include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x103) && ! defined (_STLP_DONT_POP_HEADER_ID)
  define _STLP_DONT_POP_HEADER_ID
#endif

#ifdef (_STLP_OUTERMOST_HEADER_ID == 0x103) && ! defined (_STLP_DONT_POP_HEADER_ID)
  define _STLP_DONT_POP_HEADER_ID
#endif

if !defined (_STLP_WCE_EVC3)
  if defined (_STLP_USE_NEW_C_HEADERS)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <cassert>
# else
#  include _STLP_NATIVE_CPP_C_HEADER(cassert)
# endif
# else
#  include <assert.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x103 )
# if !_defined (_STLP_DONT_POP_HEADER_ID)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
# else
#  undef _STLP_DONT.Pop_HEADER_ID
# endif
#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

// This header exists solely for portability. Normally it just includes
// the native header <exception>.
#ifndef _STLP_EXCEPTION
#if !defined (_STLP_OUTERMOST_HEADER_ID)
#  define _STLP_OUTERMOST_HEADER_ID 0x423
#  include <stl/prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x423)
#  define _STLP_DONT_POP_HEADER_ID
#  define _STLP_EXCEPTION
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x423) && !defined (_STLP_DONT_POP_HEADER_ID)
#  ifndef _STLP_INTERNAL_EXCEPTION
#    include <stl/exception.h>
#  endif
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x423) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
/* If we are here it means that we are in an include called
* from the native lib which means that we can simply forward this
* call to the native exception header:
*/
#if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <exception>
#else
#  if defined (__DMC__) && (_STLP_OUTERMOST_HEADER_ID == 0x874)
// Workaround to DMC hardcoded typeid.h inclusion.
#    include <../include/exception>
#else
#    include _STLP_NATIVE_CPP_RUNTIME_HEADER(exception)
#endif
#else
#endif
#endif /* _STLP_EXCEPTION */

#if (_STLP_OUTERMOST_HEADER_ID == 0x423)
#  if !defined(_STLP_DONT_POP_HEADER_ID)
#    include <stl/epilog.h>
#    undef _STLP_OUTERMOST_HEADER_ID
#else
#    undef _STLP_DONT_POP_HEADER_ID
#endif
#endif

#endif /* _STLP_EXCEPTION */

// Local Variables:
// mode:C++
// End:
This directory contains the STLport-5.0 release.

What's inside:

**README** - this file
**INSTALL** - installation instructions

- installation directory for STLport unit tests;
  it may contain more subdirs, if you use
  crosscompilation

- build directory for STLport library (if you use
  STLport iostreams and/or locale only)

- build directory for regression (unit) tests

- build directory for exception handling tests

- main STLport include directory

- source for iostreams implementation and other parts
  that aren't pure template code

- installation directory for STLport library (if you
  use STLport iostreams and/or locale only);
  it may contain more subdirs, if you use
  crosscompilation

- unit (regression) tests

- exception handling test using STLport iostreams

- miscellaneous files (ChangeLog, TODO, scripts, etc.)

**GETTING STLPORT**

To download the latest version of STLport, please be sure to visit
https://sourceforge.net/project/showfiles.php?group_id=146814

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#ifndef _STLP_SLIST
#define _STLP_SLIST

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x58
#include <stl/prolog.h>
#endif
```cpp
#ifdef _STLP_PRAGMA_ONCE
  #  pragma once
#endif

#if defined (_STLP_NO_EXTENSIONS)
  /* Comment following if you want to use the slist container even if you ask for
   * no extension.
   */
  #error The slist class is an STLport extension.
#endif

#ifndef _STLP_INTERNAL_SLIST_H
  # include <stl/_slist.h>
#endif

#if defined (_STLP_IMPORT_VENDOR_STD)
//This is not a Standard header, it might failed for most of
//the compilers so we comment it for the moment. Should be uncommented
//on a compiler basis.
//#  include _STLP_NATIVE_HEADER(slist)
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x58)
  # include <stl/_epilog.h>
  # undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_SLIST */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iostream_string.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_unordered_set.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_workaround.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_deque.h

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 *
 */

// This header defines classes basic_stringbuf, basic_istringstream,
// basic_ostringstream, and basic_stringstream. These classes
// represent streambufs and streams whose sources or destinations are
// C++ strings.

#ifndef _STLP_SSTREAM

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 9393
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1059
# include <stl/_prolog.h>
# define _STLP_SSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1059) && 
 !(defined (_STLP_NO_ISTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1059) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <sstream>
#else
# include _STLP_NATIVE_HEADER(sstream)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1059)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_SSTREAM */

// Local Variables:
// mode:C++
// End:

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*
*/

#ifndef _STLP_ALGORITHM

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x1
# include <stl/_prolog.h>
# define _STLP_ALGORITHM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1)
# ifndef _STLP_INTERNAL_CSTDIO
// remove() conflicts, <cstdio> should always go first
# include <stl/_cstdio.h>
# endif

# ifndef _STLP_INTERNAL_ALGO_H
# include <stl/_algo.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <algorithm>
# else
# include _STLP_NATIVE_HEADER(algorithm)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_ALGORITHM */
// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/algorithm
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/***********************************************************************************
test_hash_resize.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_hash_resize.h
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random_number.h

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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/random_number.h
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 */

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_timer.h
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 */

#ifndef _STLP_CSIGNAL
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x112
#define _STLP_CSIGNAL
#include <stl/_prolog.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x112)
#ifndef _STLP_INTERNAL_CSIGNAL
#include <stl/_csignal.h>
#endif
#endif
#if (!STLP_OUTERMOST_HEADER_ID == 0x112)
#ifndef _STLP_INTERNAL_CSIGNAL
#include <stl/_csignal.h>
#endif
#endif
#endif
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x112) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <csignal>
# else
#  include _STLP_NATIVE_CPP_C_HEADER(csignal)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x112 )
# include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CSIGNAL */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csignal
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test_rope.cpp

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/***********************************************************************************
test_push_back.h
Interface for the test_push_back class

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test_hash_set.cpp

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Quick start.

GNU Make (Linux, OpenBSD, FreeBSD, CygWin, etc.), with gcc:

    make -f gcc.mak depend
    make -f gcc.mak install

GNU Make (SunOS), with SunPro CC:
make -f CC.mak depend  
make -f CC.mak install  

Microsoft NMAKE (MS Windows), with VC6:  
nmake /fmsvc.mak install  

Make system goals.  

- all source files declared in one place (for all platforms and compilers); the same is for base library (application) name and version.  
- derive object filenames from source filenames in make system  
- source files may be situated in few catalogs  
- avoid information duplication, if possible  
- support cross-compilation  

Make targets.  

release-static  
    build STLport as static library  

dbg-static  
    build STLport as static library (with debug information)  

stldbg-static  
    build STLport as static library (STLP_DEBUG mode, with debug information)  

release-shared  
    build STLport as dynamic (shared) library  

dbg-shared  
    STLport as dynamic (shared) library (with debug information)  

stldbg-shared  
    build STLport as dynamic (shared) library (STLP_DEBUG mode, with debug information)  

all (default)
cumulative target for release,dbg,stldbg -shared on Unix-like platforms and plus release,dbg,stldbg -static on Windows.

depend

create dependency files (for performance reasons dependency not created during compilation process); this target absent for MS NMAKE (due to pure scripting opportunities)

install-release-shared
install-dbg-shared
install-stldbg-shared
install-release-static
install-dbg-static
install-stldbg-static

build and install appropriate libraries and related files, into 'STLport/lib' and 'STLport/bin' (../lib, relative position of this file)

install

cumulative target for install-*-shared on Unix-like platforms and install-*-* on Windows.

clean

remove all intermediate files

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/lib/README

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#ifndef _STLP_IOS

#ifndef _STLP_OUTERMOST_HEADER_ID
  define _STLP_OUTERMOST_HEADER_ID 0x1032
  include <stl/_prolog.h>
  define _STLP_IOS
#endif

if (_STLP_OUTERMOST_HEADER_ID == 0x1032) && 
!defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
  include <stl/_ioserr.h>

  ifndef _STLP_INTERNAL_IOS_H
    include <stl/_ios.h>
  endif
#endif

if (_STLP_OUTERMOST_HEADER_ID != 0x1032) || defined (_STLP_IMPORT_VENDOR_STD)
  if defined (_STLP_HAS_INCLUDE_NEXT)
    include_next <ios>
  else
    include _STLP_NATIVE_HEADER(ios)
  endif
#endif

if (_STLP_OUTERMOST_HEADER_ID == 0x1032)
  include <stl/_epilog.h>
  undef _STLP_OUTERMOST_HEADER_ID
endif
#endif /* _STLP_IOS */

// Local Variables:
// mode:C++
// End:

Found in path(s):
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ios
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/***************************************************************************
SortClass.h

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SUMMARY: A class designed to test operations that compares objects. All comparisons on SortClass may fail. Also records its own address for the sake of testing the stability of sorting algorithms.

FOUND IN PATH(S):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/SortClass.h

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*/

#ifndef _STLP_CTIME
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x118
#include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x118) && ! defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT.Pop_HEADER_ID
#define _STLP_CTIME
#endif

#define _STLP_OUTERMOST_HEADER_ID 0x118
#define _STLP_DONT.Pop_HEADER_ID
#define _STLP_CTIME

#if (_STLP_OUTERMOST_HEADER_ID == 0x118) && ! defined (_STLP_DONT.Pop_HEADER_ID)
#endif

#ifndef _STLP_INTERNAL_CTIME
#include <stl/_ctime.h>
#endif

#endif

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*/
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x118) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
  # if defined (_STLP_HAS_INCLUDE_NEXT)
    # include_next <ctime>
  # else
    # include _STLP_NATIVE_CPP_C_HEADER(ctime)
  # endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x118)
  # if !defined (_STLP_DONT_POP_HEADER_ID)
    # include <stl/_epilog.h>
    # undef _STLP_OUTERMOST_HEADER_ID
  # else
    # undef _STLP_DONT_POP_HEADER_ID
  # endif
#endif /* _STLP_CTIME */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ctime
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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_list.cpp
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*/

#ifndef _STLP_CFLOAT
#define _STLP_CFLOAT

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x106
#include <stl/_prolog.h>
#endif

// Borland defines some implementation constants in std:: namespace,
// we do not want to import them.
#if defined (_STLP_USE_NEW_C_HEADERS) && !defined (__BORLANDC__)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <cfloat>
# else
# include _STLP_NATIVE_CPP_C_HEADER(cfloat)
# endif
#else
# include <float.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x106 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CFLOAT */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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Prefix.h

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SUMMARY: Configuration #defines for STL EH test suite

**************************************************************************/

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_native_headers.h

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version.

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/etc/ChangeLog-5.1

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 */

/ * Default values based on C++ Standard 22.2.1.
 * Under Windows the localisation implementation take care of mapping its
 * mask values to those internal values. For other platforms without real
 * localization support we are free to use the most suitable values.*/

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/c_locale.h

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#ifndef _STLP_VALARRAY

#ifndef _STLP_OUTERMOST_HEADER_ID
    # define _STLP_OUTERMOST_HEADER_ID 0x76
    # include <stl/_prolog.h>
    # define _STLP_VALARRAY
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x76)
    # ifdef _STLP_VALARRAY_H
    # include <stl/_valarray.h>
    # endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x76) || defined (_STLP_IMPORT_VENDOR_STD)
    #if defined (_STLP_HAS_INCLUDE_NEXT)
        #include_next <valarray>
    #else
        #include _STLP_NATIVE_HEADER(valarray)
    #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x76)
    # include <stl/_epilog.h>
    # undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_VALARRAY */

// Local Variables:
// mode:C++
// End:

Found in path(s):
  * /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/valarray
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Tests.h

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SUMMARY: Declarations of all of the tests in the exception test suite.

*******************************************************************************/

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#ifndef _STLP_STDEXCEPT

#if !defined (_STLP_OUTERMOST_HEADER_ID)

#include <stl/_prolog.h>

#elif (_STLP_OUTERMOST_HEADER_ID == 0x63) && !defined (_STLP_DONT_POP_HEADER_ID)

#endif

#else prepro

#endif

#endif _STLP_STDEXCEPT
// Local Variables:
// mode:C++
// End:

Found in path(s):
  */opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/stlport/stdexcept

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# ifndef _STLP_STACK
# ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x60
# include <stl/_prolog.h>
# define _STLP_STACK
# endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x60)
# ifndef _STLP_INTERNAL_STACK_H
# include <stl/_stack.h>
# endif
# endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x60) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <stack>
# else
# include _STLP_NATIVE_HEADER(stack)
# endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x60)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# endif
#endif /* _STLP_STACK */

// Local Variables:
// mode:C++
// End:

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 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1.tar.gz/STLport-5.2.1/src/c_locale_win32/c_wlocale_win32.c
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*/

#ifndef _STLP_BITSET

// This implementation of bitset<> has a second template parameter,
// _WordT, which defaults to unsigned long. *YOU SHOULD NOT USE
// THIS FEATURE*. It is experimental, and it may be removed in
// future releases.

// A bitset of size N, using words of type _WordT, will have
// N % (sizeof(_WordT) * CHAR_BIT) unused bits. (They are the high-
// order bits in the highest word.) It is a class invariant
// of class bitset<> that those unused bits are always zero.

// Most of the actual code isn't contained in bitset<> itself, but in the
// base class _Base_bitset. The base class works with whole words, not with
// individual bits. This allows us to specialize _Base_bitset for the
// important special case where the bitset is only a single word.

// The C++ standard does not define the precise semantics of operator[].
// In this implementation the const version of operator[] is equivalent
// to test(), except that it does no range checking. The non-const version
// returns a reference to a bit, again without doing any range checking.

#ifndef _STLP_OUTERMOST_HEADER_ID
    #define _STLP_OUTERMOST_HEADER_ID 0x2
    #include <stl/_prolog.h>
    #define _STLP_BITSET
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x2)
    ifndef _STLP_INTERNAL_BITSET
        #include <stl/_bitset.h>
    #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x2) || defined (_STLP_IMPORT_VENDOR_STD)
    #if defined (_STLP_HAS_INCLUDE_NEXT)
        #include_next <bitset>
    #endif
#endif
# else
#   include _STLP_NATIVE_HEADER(bitset)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x2 )
#   include <stl/_epilog.h>
#   undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_BITSET */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/bitset
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 */

#ifndef _STLP_IOMANIP

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1030
#define _STLP_IOMANIP
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1030) &&
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>

# ifndef _STLP_INTERNAL_IOCMANIP
# include <stl/_iomanip.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1030) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <iomanip>
# else
# include _STLP_NATIVE_HEADER(iomanip)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1030)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# endif
#endif /* _STLP_IOCMANIP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

#ifndef _STLP_NEW_HEADER

#ifndef _STLP_OUTERMOST_HEADER_ID

#ifdef _STLP_INTERNAL_IOCMANIP

#include <stl/_iomserr.h>

#endif

#endif

#endif /* _STLP_IOCMANIP */
# define _STLP_OUTERMOST_HEADER_ID 0x447
# define _STLP_NEW_HEADER
# include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x447)
# ifndef _STLP_NEW_H_HEADER
# include <stl/_new.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x447) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <new>
# else
# include _STLP/native_CPP_RUNTIME_HEADER(new)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x447)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_NEW */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/new
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// This header defines classes basic_filebuf, basic_ifstream, 
// basic_ofstream, and basic_fstream. These classes represent 
// streambufs and streams whose sources or destinations are files.

ifndef _STLP_FSTREAM

ifndef _STLP_OUTERMOST_HEADER_ID

define _STLP_OUTERMOST_HEADER_ID 0x1025

define _STLP_FSTREAM

if defined (__DMC__) && defined (_DLL)

define _STLP_CLASS_IMPORT_DECLSPEC __declspec(dllimport)

endif
#endif
endif

if (_STLP_OUTERMOST_HEADER_ID == 0x1025) &

!(defined (_STLP_NO_IOSTREAMS) &
defined (_STLP_IMPORT_VENDOR_STD))

include <stl/_ioserr.h>
#endif
#endif

ifndef _STLP_INTERNAL_FSTREAM_H

include <stl/_fstream.h>
#endif
#endif
#endif
#endif
#endif
endif
#endif
endif /* _STLP_FSTREAM */
// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/fstream
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 */

#ifndef _STLP_PTHREAD_ALLOC
#define _STLP_PTHREAD_ALLOC

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x52
#endif
#include <stl/_prolog.h>
#endif

#ifndef _STLP_PRAGMA_ONCE
#define _STLP_PRAGMA_ONCE
#pragma once
#endif

#include <stl/_pthread_alloc.h>


// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pthread_alloc
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test_insert.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_cray.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_system.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/stl_mycomp.h

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/***********************************************************************************

TestController.h

SUMMARY: An "faux-singleton" object to encapsulate a hodgepodge of state and
functionality relating to the test suite. Probably should be broken
into smaller pieces.

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/nc_alloc.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/top.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/CC.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/clean.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/rules-install.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-
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*/
// version.

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_stream_iterator.h
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*/

#ifndef _STLP_CERRNO
#define _STLP_CERRNO

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x105
#include <stl/_prolog.h>
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x105
#include <stl/_prolog.h>
#endif

endif
#ifndef _STLP_WCE
#  if defined (_STLP_USE_NEW_C_HEADERS)
#    if defined (_STLP_HAS_INCLUDE_NEXT)
#      include_next <cerrno>
#    else
#      include _STLP_NATIVE_CPP_C_HEADER(cerrno)
#    endif
#  else
#    include <errno.h>
#  endif
#endif

#ifndef errno /* errno is not a macro */
#  if defined (_STLP_IMPORT_VENDOR_CSTD)
#      if !defined (__IBMCPP__) && !defined (__hpux) && !defined (__MWERKS__) && !defined (_STLP_WCE)
_STLP_BEGIN_NAMESPACE
using _STLP_VENDOR_CSTD::errno;
_STLP_END_NAMESPACE
#      endif
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x105 )
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CERRNO */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cerrno
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=======================================
STLport README for Microsoft Visual C++ compilers.
=======================================

by: Francois Dumont, dums@stlport.com, last edited 08/02/2005

=============
Introduction
=============
This document describes how STLport can be compiled and used with Microsoft
Visual C++ 6 SP5. It can also be used for the MSVC++ family.

For any further comments or questtion visit STLport mailing lists
http://stlport.sourceforge.net/Maillists.shtml or forums
https://sourceforge.net/forum/?group_id=146814

=============
Prerequisites
=============
To build and use STLport you will need following tools and libraries:
- Microsoft Visual C++ 6.0 with at least Service Pack 5 or any higher
version.

=============
Configuring STLport
===============
In a console window go to the STLport build/lib folder. Run

configure --help

This command will present you the different available build options. Just follow
the instructions to set STLport configuration according your needs. The only
mandatory configuration is to declare what is the compiler you are going to
use, for MSVC 6 it is:

configure -c msvc6
Building STLport

This is a step by step description of the actions to take in order to have the STLport library built:

1. Open a console window. You can get it executing cmd or command depending on your Windows OS.

2. Go to MSVC++ Bin directory with a default MSVC6 install it is
cd "C:\Program Files\Microsoft Visual Studio\VC98\Bin"

3. Run the vcvars32.bat script. This sets the environment variables required
to have the MSVC++ compiler run during the build process. The most important
one is the PATH variable so that you can call the cl.exe command which is the
MSVC++ command line compiler. [You may omit this step, if you chose 'Install paths
to access command-line tools' during Microsoft Visual Studio installation procedure.]

4. Go to the STLport build/lib folder:
cd C:\STLport\build\lib

5. Run the following command:
nmake /fmsvc.mak install

nmake is the make utility from Microsoft. /f is an nmake option
telling it which make file script to use. You have of course to grant the
closer make file to your effective compiler, msvc.mak in our case.

Once the command returns, you will have all the necessary libraries within
the STLport lib folder. For a description of the generated libraries check the README
file within the src folder.

Testing STLport

You can use the unit tests to verify STLport behaves correctly. Change into
STLports 'build/test/unit' folder and type:

nmake /fmsvc.mak install

Once the unit test is built you just need to run it. They can be found
within the STLport bin folder.

Using STLport

Adjust your include and link paths in MSVC IDE (in 'Tools -> Options -> Directories')
for MSVC6 IDE). In the include files add the path to STLport's 'stlport' folder. Make sure it is the first directory listed there. Add STLport's 'lib' folder for the library files (order of paths doesn't matter here).

There are some preprocessor defines that control usage of the STLport in msvc projects:

If you don't want to use the iostreams part of the library, you can specify the define _STLP_NO_IOSTREAMS. In this mode there is no need to link against the library.

STLport uses automatic linking to find the proper .lib file. If you want to see what import library STLport is going to use, define _STLP_VERBOSE_AUTO_LINK. When not using automatic linking (by specifying _STLP_DONT_USE_AUTO_LINK), you have to specify the proper .lib file in the Project Settings, on the "link" tab. The .lib names have the following syntax:

    stlport[d][stld][_x,_static,_statix].<STLport-Version>.lib

    d : debug build
    std: debug build with _STLP_DEBUG (STL safe) mode
    _x: Build of STLport as a dll but statically link to the native runtime.
    _static : build of a static library
    _statix : build of a static library link dynamically to the native runtime.

Examples:

    stlport_static.5.0.lib - static release version, Version 5.0.0
    stlportd.5.0.lib - dll debug version, Version 5.0.0

When using STLport together with MFC, be sure to include the MFC headers first, then include STLport headers, e.g. in your Stdafx.h. This way STLport correctly recognizes MFC usage. You also can define the macro _STLP_USE_MFC, either in your project settings or in stlport/stl/config/user_config.h.

In order to enhance debugging with STLport you can optionally add the content of the etc/autoexp.dat file in the autoexp.dat file coming with your Visual Studio install.

Now you should be ready to use STLport.

============= Known issues =============

1. InterlockedIncrement

If you experiment trouble with the InterlockedIncrement Win32 API function

---

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like the following message:

C:\Program Files\Microsoft SDK\Include\\winbase.h(1392) : error C2733: second C
linkage of overloaded function 'InterlockedIncrement' not allowed
C:\Program Files\Microsoft SDK\Include\\winbase.h(1390) : see declaration of
'InterlockedIncrement'

It means that you are using the new Microsoft platform SDK. There is no
way to known it from STLport code so you have to signal it in the
stlport/stl/config/user_config.h file (uncomment _STLP_NEW_PLATFORM_SDK in this file).

2. Native C/C++ library headers location

If you experiment trouble with location of ctime and other Standard headers
while building or using STLport you might be using the compiler coming with a
platform SDK. If so please uncomment _STLP_USING_PLATFORM_SDK_COMPILER in
stlport/stl/config/user_config.h. If it still do not find native headers you will
perhaps need to change native headers relative path used by STLport. In this case use
_STLP_NATIVE_INCLUDE_PATH and associated macro in stlport/stl/config/host.h.

4. C symbols in std namespace

The compiler of MSVC++ 6 has a bug when dealing with symbols existant in both
the global namespace and symbols imported by a using-directive or a
using-declaration - it will report an ambiguous call to an overloaded
function (error C2668). Example:

```cpp
void function();
namespace ns {
    void function();
    // or:
    // using ::function;
}

using ns::function;
// or:
// using namespace ns;

void call() {
    function();
}
```

Since we anticipate that using-declarations or even using-directives are common
use, STLport by default doesn't import or wrap functions that exist in both the
global namespace and namespace std, in particular those are functions with C
origin like fopen() or abs(). Also, it defines additional overloads for
functions like abs() (overloaded for int, long, float, double, long double) in
the global namespace.
In order to make STLport include them in the std namespace, you can define the 
_STLP_DO_IMPORT_CSTD_FUNCTIONS macro. Doing so, you will have to explicitly 
scope all your functions calls like std::abs() though - otherwise you only get 
the global abs(int) from the C library.

Found in path(s):
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 */

#ifndef _STLP_LIMITS
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x39
#include <stl/_prolog.h>
#define _STLP_LIMITS
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x39)
#ifndef _STLP_INTERNAL_LIMITS
#include <stl/_limits.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x39) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <limits>
#else
#include _STLP_NATIVE_HEADER(limits)
#endif
#endif
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test_assign_op.h

SUMMARY: Test functor template for assignment operators.

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 */
// WARNING: The classes defined in this header are DEPRECATED. This
// header is defined in section D.7.1 of the C++ standard, and it
// MAY BE REMOVED in a future standard revision. You should use the
// header <sstream> instead.

#ifndef _STLP_STRSTREAM
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#endif

#define _STLP_OUTERMOST_HEADER_ID 0x1070
#include <stl/_prolog.h>
#define _STLP_STRSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1070) &&
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#ifndef _STLP_INTERNAL_STRSTREAM
#include <stl/_strstream.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1070) || defined (_STLP_IMPORT_VENDOR_STD)
/* Even if deprecated strstream header is still part of the Standard. Remove
* _STLP_IMPORT_VENDOR_STD check if the native compiler library do not grant
* it anymore. */
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <strstream>
#else
#include _STLP_NATIVE_HEADER(strstream)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1070)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1070) || defined (_STLP_IMPORT_VENDOR_STD)
/* _STLP_IMPORT_VENDOR_STD */
#endif

// Local Variables:
// mode:C++
// End:

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 */

#ifndef _STLP_CLOCALE

#ifndef _STLP_OUTERMOST_HEADER_ID

#define _STLP_OUTERMOST_HEADER_ID 0x109
#define _STLP_CLOCALE
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x109)
#else
 #include <stl/_clocale.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x109) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <clocale>
#else
#include _STLP_NATIVE_CPP_C_HEADER(clocale)
#endif
#endif

#else
 #include <stl/_epilog.h>
#endif /* _STLP_CLOCALE */

// Local Variables:
// mode:C++
Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/locale
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_move_construct_fwk.h
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*/

#ifndef _STLP_UTILITY

#ifndef _STLP_OUTERMOST_HEADER_ID
    # define _STLP_OUTERMOST_HEADER_ID 0x75
    # include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x75) && !defined (_STLP_DONT_POP_HEADER_ID)
    # define _STLP_DONT_POP_HEADER_ID
    # define _STLP_UTILITY
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x75) || defined (_STLP_DONT_POP_HEADER_ID) || defined
    (_STLP_IMPORT_VENDOR_STD)
    #if defined (_STLP_HAS_INCLUDE_NEXT)
    # include_next <utility>
    #else
    # include _STLP_NATIVE_HEADER(utility)
    #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x75)
    # if !defined (_STLP_DONT_POP_HEADER_ID)
    # include <stl/_epilog.h>
    # define _STLP_OUTERMOST_HEADER_ID
    #endif
#endif

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#endif

#include "STLP.Utility.h"

// Local Variables:
// mode:C++
// End:

Test_Deque.cpp

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/*

#ifndef _STLP_COMPLEX

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x10
#define _STLP_COMPLEX
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x10)
// This header declares the template class complex, as described in
// in the C++ Standard. Single-precision complex numbers
// are complex<float>, double-precision are complex<double>, and
// quad precision are complex<long double>.

// Note that the template class complex is declared within namespace
// std, as called for by the draft C++ standard
#endif

 ifndef _STLP_INTERNAL_COMPLEX
#include <stl/_complex.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x10) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <complex>
#else
#include _STLP_NATIVE_HEADER(complex)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x10)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_COMPLEX */

/*

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* 
*/

#ifndef _STLP_CSTDARG

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x113
#define _STLP_CSTDARG
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x113)
#if defined (_STLP_INTERNAL_CSTDARG)
#include <stl/_cstdarg.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x113) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstdarg>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstdarg)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x113 )
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CSTDARG */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 *
 */
#endif

#ifndef _STLP_OSTREAM
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1050
#include <stl/_prolog.h>
#define _STLP_OSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1050) && 
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#endif

#ifndef _STLP_INTERNAL_OSTREAM
#define _STLP_INTERNAL_OSTREAM
#include <stl/_ostream.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1050) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <ostream>
#else
#include _STLP_NATIVE_HEADER(ostream)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1050)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_OSTREAM */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_alloc.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_alloc.c
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#ifndef _STLP_CMATH

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x110
# include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID
# define _STLP_CMATH
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
# ifndef _STLP_INTERNAL_CMATH
# include <stl/_cmath.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x110) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <cmath>
# else
# include _STLP_NATIVE_CPP_C_HEADER(cmath)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110)
# if !defined (_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# else
# undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

#endif /* _STLP_CMATH */

// Local Variables:
// mode:C++
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 */

#ifndef _STLP_CSTDDEF

#ifndef _STLP_OUTERMOST_HEADER_ID

#define _STLP_OUTERMOST_HEADER_ID 0x114
#define _STLP_CSTDDEF
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x114)
#ifndef _STLP_INTERNAL_CSTDDEF
#include <stl/_cstddef.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x114) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstddef>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstddef)
#endif
#endif

#else
#endif

#endif

#endif

#ifndef _STLP_CSTDDEF

if (_STLP_OUTERMOST_HEADER_ID == 0x114)
#endif

if (_STLP_OUTERMOST_HEADER_ID != 0x114) || defined (_STLP_IMPORT_VENDOR_STD)
#endif

#include_next <cstddef>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstddef)
#endif

#include <stl/_epilog.h>

#undef _STLP_OUTERMOST_HEADER_ID

#endif
#endif /* _STLP_CSTDDEF */

// Local Variables:
// mode:C++
// End:

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 test_algobase.cpp

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#ifndef _STLP_CCTYPE
#endif
#ifndef _STLP_OUTERMOST_HEADER_ID
#endif

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// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_threads.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_auto_ptr.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/memory
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_io.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_hash.h
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*/

#ifndef _STLP_LIST
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x40
#include <stl/_prolog.h>
#define _STLP_LIST
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x40)
# ifndef _STLP_INTERNAL_LIST_H
# include <stl/_list.h>
# endif

#ifdef (_STLP_OUTERMOST_HEADER_ID != 0x40) || defined (_STLP_IMPORT_VENDOR_STD)
# include_next <list>
# else
# include _STLP_NATIVE_HEADER(list)
# endif
#endif

#ifdef (_STLP_OUTERMOST_HEADER_ID == 0x40)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_LIST */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

#ifndef _STLP_TYPEINFO

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x473
#include <stl/_prolog.h>
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x473
#include <stl/_prolog.h>
#endif

#endif /* _STLP_TYPEINFO */
#elif (_STLP_OUTERMOST_HEADER_ID == 0x473) && !defined (_STLP_DONT_POP_HEADER_ID)
#  define _STLP_DONT_POP_HEADER_ID
#  define _STLP_TYPEINFO
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x473) && !defined (_STLP_DONT_POP_HEADER_ID)
#  ifndef _STLP_INTERNAL_TYPEINFO
#    include <stl/_typeinfo.h>
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x473) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <typeinfo>
#  else
#    include _STLP_NATIVE_CPP_RUNTIME_HEADER(typeinfo)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x473)
#  if !defined (_STLP_DONT_POP_HEADER_ID)
#    include <stl/_epilog.h>
#    undef _STLP_OUTERMOST_HEADER_ID
#  else
#    undef _STLP_DONT_POP_HEADER_ID
#  endif
#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/

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*/

#ifndef _STLP_CSTDLIB

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x116
#define _STLP_CSTDLIB
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x116)
#define _STLP_INTERNAL_CSTDLIB
#include <stl/_cstdlib.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x116) || defined (_STLP_IMPORT_VENDOR_STD)

#if defined (__GNUC__) && defined (__MINGW32__)/* Native cstdlib includes stdlib.h using an include_next so STLport stdlib.h
* is not used and the workaround in this file must be duplicated here
* (see stdlib.h). */
#include "errno.h"
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x116)
 ifndef _STLP_INTERNAL_CSTDLIB
 # include <stl/_cstdlib.h>
 # endif
#endif

#endif

#ifndef _STLP_CSTDLIB

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x116
#define _STLP_CSTDLIB
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x116) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <cstdlib>
# else
#  include _STLP_NATIVE_CPP_C_HEADER(cstdlib)
# endif
#endif

#ifdef (_STLP_OUTERMOST_HEADER_ID == 0x116)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CSTDLIB */

// Local Variables:
// mode:C++
// End:

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test_bitset.cpp

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* *
*/

#ifndef _STLP_MAP

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x43
# include <stl/_prolog.h>
# define _STLP_MAP
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x43)
# ifndef _STLP_INTERNAL_MAP_H
# include <stl/_map.h>
#endif
#endif

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# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x43) || defined (_STLP_IMPORT_VENDOR_STD)
  #if defined (_STLP_HAS_INCLUDE_NEXT)
    #include_next <map>
  # else
    # include _STLP_NATIVE_HEADER(map)
  # endif
#else
  #if (_STLP_OUTERMOST_HEADER_ID == 0x43)
    #include <stl/_epilog.h>
  #endif
  # undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_MAP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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1.747 ncurses 5.9
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1.748 objectweb-asm 7.3.1

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1.749 xorg-randr 1.5.1-2.el7

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. *
 * http://www.hypermall.com/ *
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY *interrupts us (except possibly for removal/insertion of the cable?) *
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos *and spelling mistakes. *
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on *loss of link, and correctly re-enable PHY when link is *re-established. (put back CFG_PHYIE) *
 * *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. *
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 *
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller. *
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; *
 * see init_nicstar() for PHY initialization to change this. This driver *
 * expects the Linux ATM stack to support scatter-gather lists *
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push. *
 *
 * Implementing minimal-copy of received data: *
 * IDT always receives data into a small buffer, then large buffers *
 * as needed. This means that data must always be copied to create *
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP) *
 * Fix is simple: make large buffers large enough to hold entire *
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then *
 * copy small buffer contents to head of large buffer. *
 * Trick is to avoid fragmenting Linux, due to need for a lot of large *
 * buffers. This is done by 2 things: *
 * 1) skb->destructor / skb->atm.recycle_buffer *
 * combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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the module unloading problems, ...

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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

1.753 jersey-container-servlet 2.13

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliiCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.
Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries
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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
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Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
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is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
courage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Julian Seward, Cambridge, UK.
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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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1.767 jackson-dataformat-yaml 2.9.8

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The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
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1.780 jackson-annotations 2.11.1

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1.783 cglib-nodep 2.2.2
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ASM: a very small and fast Java bytecode manipulation framework

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* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/support/annotation/NameMatchMethodPointcut.java
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* /opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/aspectj/advisor/DefaultAdvisedObjectSupport.java
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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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Automated Testing Framework

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>
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1.803 joda-time 2.7

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* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
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1.817 icu 50.2-3.el7

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.o=$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o=$(srcdir)/%.c
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$SHELL -ec '$(GEN_DEPS.c) $< \n| sed \"s/a\(.*\)/o\: /g\" > $@; \n[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$SHELL -ec '$(GEN_DEPS.cc) $< \n| sed \"s/a\(.*\)/o\: /g\" > $@; \n[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.so$(SO).$(SO_TARGET_VERSION_MAJOR): %.so$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.so: %.so$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.so.$(SO) $@

## End FreeBSD-specific setup

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### 1.818 coreutils 8.22

#### 1.818.1 Available under license:

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Version 3, 29 June 2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.820 jackson-jaxrs 2.9.9

1.820.1 Available under license:

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.
1.821 bash 4.2.46 31.el7

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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

```
```

Chet Ramey

```
```

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@gnu.ai.mit.edu Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
  id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
  id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
  id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one: be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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*/

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o  
23-June-2007  

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
    (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
    $(MV) pic/$(BSD_LIB) .
    $(RM) -f ../$(BSD_LIB)
    (cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -rf ../*$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Gadi Oxman, August 1995
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### 1.832 cxf-rt-frontend-js 3.4.0

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1.843 commons-validator 1.1.4
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  jar/org/apache/commons/validator/Field.java
No license file was found, but licenses were detected in source scan.

/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Arg.java,v 1.17
 * 2004/02/21 17:10:29 rleland Exp $
 * $Revision: 1.17 $
 * $Date: 2004/02/21 17:10:29 $
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  jar/org/apache/commons/validator/Arg.java
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/util/Flags.java,v 1.8
 * 2004/02/21 17:10:30 rleland Exp $
 * $Revision: 1.8 $
 * $Date: 2004/02/21 17:10:30 $
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$Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Form.java,v 1.14.2.1
2004/06/22 02:24:38 husted Exp $ 
* $Revision: 1.14.2.1 $ 
* $Date: 2004/06/22 02:24:38 $ 
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jar/org/apache/commons/validator/Form.java

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/* 
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorResult.java,v 
1.11 2004/02/21 17:10:29 rleland Exp $ 
* $Revision: 1.11 $ 
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/util/ValidatorUtils.java,v
 * 1.7.2.1 2004/06/22 02:24:38 husted Exp $
 * $Revision: 1.7.2.1 $
 * $Date: 2004/06/22 02:24:38 $
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jar/org/apache/commons/validator/Constant.java

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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/Constant.java,v
 * 1.10 2004/02/21 17:10:29 rleland Exp $
 * $Revision: 1.10 $
 * $Date: 2004/02/21 17:10:29 $
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
jar/org/apache/commons/validator/util/ValidatorUtils.java
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/*! * SHHeader: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/GenericTypeValidator.java,v 1.13 2004/02/21 17:10:29 rleland Exp $ * $Revision: 1.13 $ * $Date: 2004/02/21 17:10:29 $ *
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jar/org/apache/commons/validator/GenericTypeValidator.java
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/*! * SHHeader: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorException.java,v 1.8 2004/02/21 17:10:29 rleland Exp $ * $Revision: 1.8 $ * $Date: 2004/02/21 17:10:29 $ *
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
  jar/org/apache/commons/validator/ValidatorException.java
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorResults.java,v 1.10 2004/02/21 17:10:29 rleland Exp $
 * $Revision: 1.10 $
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
  jar/org/apache/commons/validator/ValidatorResults.java
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* $Date: 2004/04/13 05:49:22 $  
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
jar/org/apache/commons/validator/ValidatorAction.java
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  jar/org/apache/commons/validator/ValidatorUtil.java
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/FormSet.java,v 1.15 2004/02/21 17:10:29 rleland Exp $ 
 * $Revision: 1.15 $ 
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/
* $Header: /home/cvs/jakarta-
  commons/validator/src/share/org/apache/commons/validator/ValidatorResources.java,v 1.30.2.2 2004/06/22
  02:24:38 husted Exp $  
* $Revision: 1.30.2.2 $  
* $Date: 2004/06/22 02:24:38 $  
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/
* $Header: /home/cvs/jakarta-
  commons/validator/src/share/org/apache/commons/validator/CreditCardValidator.java,v 1.16 2004/02/21 17:10:29
  rleland Exp $  
* $Revision: 1.16 $  
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/DateValidator.java,v 1.6
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* $Revision: 1.6 $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/EmailValidator.java,v
1.12 2004/02/21 17:10:29 rleland Exp $
jar/org/apache/commons/validator/Var.java
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/ValidatorResourcesInitializer.java,v 1.22 2004/02/21 17:10:29 rleland Exp $
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------------

. The `grn' preprocessor, written by Barry Roithlat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

    src/devices/xditview/DESC.in
    src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
    src/devices/xditview/DviP.h
    src/devices/xditview/FontMap
    src/devices/xditview/GXditview.ad
    src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1 bm
src/devices/xditview/gray2 bm
src/devices/xditview/gray3 bm
src/devices/xditview/gray4 bm
src/devices/xditview/gray5 bm
src/devices/xditview/gray6 bm
src/devices/xditview/gray7 bm
src/devices/xditview/gray8 bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit bm
src/devices/xditview/xdit_mask bm
src/devices/xditview/xditview c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar c
src/libs/libxutil/XFontName.c

Macro Packages
-------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me
Hyphenation Patterns

---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

The patterns have been converted to a format groff can understand.

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehypht-x-2017-03-31.pat' and `dehypn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

    http://ctan.org/tex-archive/language/hyphenation/dehyp-expt1

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.858 javax-inject 1

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
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which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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Theodore Ts'o
23-June-2007

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/* gpptar.c - A simple TAR implementation mainly useful for Windows.
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   *
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/* GnuPG comes with a shell script gpg-zip which creates archive files in the same format as PGP Zip, which is actually a USTAR format. That is fine and works nicely on all Unices but for Windows we don't have a compatible shell and the supply of tar programs is limited. Given that we need just a few tar option and it is an open question how many Unix concepts are to be mapped to Windows, we might as well write our own little tar customized for use with gpg. So here we go. */

#include <config.h>
#include <errno.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <assert.h>
#ifdef HAVE_STAT
#include <sys/stat.h>
#else
#include "util.h"
#include "i18n.h"
#include "sysutils.h"
#include "../common/openpgpdefs.h"
#endif
#include "gpgtar.h"

/* Constants to identify the commands and options. */
enum cmd_and_opt_values
{
    aNull = 0,
aEncrypt  = 'e',
    aDecrypt = 'd',
    aSign    = 's',
    aList    = 't',

    oSymmetric = 'c',
oRecipient= 'r',
oUser      = 'u',
oOutput= 'o',
oQuiet     = 'q',
oVerbose   = 'v',
oFilesFrom = 'T',
oNoVerbose= 500,
}
aSignEncrypt,
oSkipCrypto,
oOpenPGP,
oCMS,
oSetFilename,
oNull
};

/* The list of commands and options. */
static ARGPARSE_OPTS opts[] = {
    ARGPARSE_group (300, N_("@Commands:
 ")),
    ARGPARSE_c (aEncrypt,   "encrypt", N_("create an archive")),
    ARGPARSE_c (aDecrypt,   "decrypt", N_("extract an archive")),
    ARGPARSE_c (aSign,      "sign",    N_("create a signed archive")),
    ARGPARSE_c (aList,      "list-archive", N_("list an archive")),
    ARGPARSE_group (301, N_("@\nOptions:\n ")),
    ARGPARSE_s_n (oSymmetric,  "symmetric", N_("use symmetric encryption")),
    ARGPARSE_s_s (oRecipient, "recipient", N_("[USER-ID]encrypt for USER-ID")),
    ARGPARSE_s_s (oUser,  "local-user",   
        N_("[USER-ID]use USER-ID to sign or decrypt")),
    ARGPARSE_s_s (oOutput, "output",      N_("[FILE]write output to FILE")),
    ARGPARSE_s_n (oVerbose,  "verbose",    N_("verbose")),
    ARGPARSE_s_n (oQuiet,  "quiet",       N_("be somewhat more quiet")),
    ARGPARSE_s_n (oSkipCrypto,  "skip-crypto", N_("skip the crypto processing")),
    ARGPARSE_s_s (oSetFilename, "set-filename", N_("")),
    ARGPARSE_s_s (oFilesFrom, "files-from",     N_("")),
    ARGPARSE_s_n (oNull,  "null",         N_("-T reads null-terminated names")),
    ARGPARSE_s_n (oOpenPGP, "openpgp",      N_("")),
    ARGPARSE_s_n (oCMS,   "cms",          N_("")),

    ARGPARSE_end ()
};

static void tar_and_encrypt (char **inpattern);
static void decrypt_and_untar (const char *fname);
static void decrypt_and_list (const char *fname);

/* Print usage information and and provide strings for help. */
static const char *
my_strusage( int level )
{
    const char *p;

switch (level) {
    case 11: p = "gpgtar (GnuPG)");
break;
    case 13: p = VERSION; break;
    case 17: p = PRINTABLE_OS_NAME; break;
    case 19: p = "Please report bugs to <EMAIL>.
"; break;
    case 1:
    case 40:
        p = "Usage: gpgtar [options] [files] [directories] (-h for help)");
break;
    case 41:
        p = "Syntax: gpgtar [options] [files] [directories]
Encrypted or sign files into an archive
";
break;
    default: p = NULL; break;
}
return p;
}

static void
set_cmd (enum cmd_and_opt_values *ret_cmd, enum cmd_and_opt_values new_cmd)
{
    enum cmd_and_opt_values cmd = *ret_cmd;

    if (!cmd || cmd == new_cmd)
        cmd = new_cmd;
    else if (cmd == aSign && new_cmd == aEncrypt)
        cmd = aSignEncrypt;
    else if (cmd == aEncrypt && new_cmd == aSign)
        cmd = aSignEncrypt;
    else
    {
        log_error (_("conflicting commands\n"));
        exit (2);
    }

    *ret_cmd = cmd;
}
/* gpgtar main. */

int
main (int argc, char **argv)
{
    ARGPARSE_ARGS pargs;
    const char *fname;
    int no_more_options = 0;
    enum cmd_and_opt_values cmd = 0;
    int skip_crypto = 0;
    const char *files_from = NULL;
    int null_names = 0;

    assert (sizeof (struct ustar_raw_header) == 512);

    gnupg_reopen_std ("gpgtar");
    set_strusage (my_strusage);
    log_set_prefix ("gpgtar", 1);

    /* Make sure that our subsystems are ready. */
    i18n_init();
    init_common_subsystems ();

    /* Parse the command line. */
    pargs.argc  = &argc;
    pargs.argv  = &argv;
    pargs.flags = ARGPARSE_FLAG_KEEP;
    while (!no_more_options && optfile_parse (NULL, NULL, NULL, &pargs, opts))
    {
        switch (pargs.r_opt)
        {
        case oOutput:  opt.outfile = pargs.r.ret_str; break;
        case oSetFilename: opt.filename = pargs.r.ret_str; break;
        case oQuiet:     opt.quiet = 1; break;
        case oVerbose:   opt.verbose++; break;
        case oNoVerbose: opt.verbose = 0; break;
        case oFilesFrom: files_from = pargs.r.ret_str; break;
        case oNull: null_names = 1; break;
        case aList:
        case aDecrypt:
        case aEncrypt:
        case aSign:
        set_cmd (&cmd, pargs.r_opt);
        break;

        case oSymmetric:
set_cmd (&cmd, aEncrypt);
opt.symmetric = 1;
break;

case oSkipCrypto:
skip_crypto = 1;
break;

case oOpenPGP: /* Dummy option for now. */ break;
case oCMS:     /* Dummy option for now. */ break;

default: pargs.err = 2; break;
}
}

if ((files_from && !null_names) || (!files_from && null_names))
  log_error("--files-from and --null may only be used in conjunction\n");
if (files_from && strcmp (files_from, "."))
  log_error("--files-from only supports argument \"-\"\n");

if (log_get_errorcount (0))
  exit (2);

switch (cmd)
{
case aList:
  if (argc > 1)
    usage (1);
  fname = argc ? *argv : NULL;
  if (opt.filename)
    log_info("note: ignoring option --set-filename\n");
  if (files_from)
    log_info("note: ignoring option --files-from\n");
  if (skip_crypto)
    gpgtar_list (fname);
  else
    decrypt_and_list (fname);
  break;

case aEncrypt:
  if ((!argc && !null_names)
      || (argc && null_names))
    usage (1);
  if (opt.filename)
    log_info("note: ignoring option --set-filename\n");
  if (skip_crypto)
    gpgtar_create (null_names? NULL :argv);
  else
    gpgtar_create (null_names? NULL :argv);
  break;
}
tar_and_encrypt (null_names? NULL : argv);
break;

case aDecrypt:
    if (argc != 1)
        usage (1);
    if (opt.outfile)
        log_info ("note: ignoring option --output
");
    if (files_from)
        log_info ("note: ignoring option --files-from\n"");
    fname = argc ? *argv : NULL;
    if (skip_crypto)
        gpgtar_extract (fname);
    else
        decrypt_and_untar (fname);
    break;

default:
    log_error (_("invalid command (there is no implicit command)\n"));
    break;
}

return log_get_errorcount (0)? 1:0;
}

/* Read the next record from STREAM.  RECORD is a buffer provided by
the caller and must be at leadt of size RECORDSIZE.  The function
return 0 on success and and error code on failure; a diagnostic
printed as well.  Note that there is no need for an EOF indicator
because a tarball has an explicit EOF record. */
gpg_error_t read_record (estream_t stream, void *record)
{
    gpg_error_t err;
    size_t nread;

    nread = es_fread (record, 1, RECORDSIZE, stream);
    if (nread != RECORDSIZE)
    {
        err = gpg_error_from_syserror ();
        if (es_errno (stream))
            log_error ("error reading '%s': %s\n",
                es_fname_get (stream), gpg_strerror (err));
        else
            log_error ("error reading '%s': premature EOF "
                "(size of last record: %zu)\n",
                es_fname_get (stream), nread);
    }
/ * Write the RECORD of size RECORDSIZE to STREAM. FILENAME is the
   name of the file used for diagnostics. */
gpg_error_t
write_record (estream_t stream, const void *record)
{
  gpg_error_t err;
size_t nwritten;

  nwritten = es_fwrite (record, 1, RECORDSIZE, stream);
  if (nwritten != RECORDSIZE)
  {
    err = gpg_error_from_syserror ();
    log_error ("error writing `%s': %s\n",
               es_fname_get (stream), gpg_strerror (err));
  }
  else
    err = 0;

  return err;
}

/* Return true if FP is an unarmored OpenPGP message. Note that this
   function reads a few bytes from FP but pushes them back. */
#if 0
static int
openpgp_message_p (estream_t fp)
{
  int ctb;

  ctb = es_getc (fp);
  if (ctb != EOF)
  {
    if (es_ungetc (ctb, fp))
      log_fatal ("error ungetting first byte: %s\n",
                 gpg_strerror (gpg_error_from_syserror ()));

    if ((ctb & 0x80))
      switch ((ctb & 0x40) ? (ctb & 0x3f) : ((ctb>>2)&0xf))
{ 
case PKT.Marker:
case PKT.Symkey.Enc:
case PKT.OnePass.Sig:
case PKT.Pubkey.Enc:
case PKT.Signature:
case PKT.Comment:
case PKT.Old.Comment:
case PKT.Plaintext:
case PKT.Compressed:
case PKT.Encrypted:
  return 1; /* Yes, this seems to be an OpenPGP message. */
default:
  break;
}

return 0;
}
#endif

static void
tar_and_encrypt (char **inpattern)
{
  (void)inpattern;
  log_error ("tar_and_encrypt has not yet been implemented\n");
}

static void
decrypt_and_untar (const char *fname)
{
  (void)fname;
  log_error ("decrypt_and_untar has not yet been implemented\n");
}

static void
decrypt_and_list (const char *fname)
{
  (void)fname;
  log_error ("decrypt_and_list has not yet been implemented\n");
}
/* A wrapper around mkdir which takes a string for the mode argument. This makes it easier to handle the mode argument which is not defined on all systems. The format of the modestr is

"-rwxrwxrwx"

'-' is a don't care or not set. 'r', 'w', 'x' are read allowed, write allowed, execution allowed with the first group for the user, the second for the group and the third for all others. If the string is shorter than above the missing mode characters are meant to be not set. */

int gnupg_mkdir (const char *name, const char *modestr)
{
#ifdef HAVE_W32CE_SYSTEM
    wchar_t *wname;
    (void)modestr;
    wname = utf8_to_wchar (name);
    if (!wname)
        return -1;
    if (!CreateDirectoryW (wname, NULL))
        { xfree (wname);
// ERRNO is automagically provided by gpg-error.h. */
    xfree (wname);
    return 0;
#endif
#ifdef MKDIR_TAKES_ONE_ARG
    (void)modestr;
    /* Note: In the case of W32 we better use CreateDirectory and try to set appropriate permissions. However using mkdir is easier because this sets ERRNO. */
    return mkdir (name);
#else
    mode_t mode = 0;
    if (modestr && *modestr)
        { modestr++;
            if (*modestr && *modestr++ == 'r')
                mode |= S_IRUSR;
            if (*modestr && *modestr++ == 'w')
                mode |= S_IWUSR;
        }
if (*modestr && *modestr++ == 'x')
    mode |= S_IXUSR;
if (*modestr && *modestr++ == 'y')
    mode |= S_IRGRP;
if (*modestr && *modestr++ == 'w')
    mode |= S_IWGRP;
if (*modestr && *modestr++ == 'x')
    mode |= S_IXGRP;
if (*modestr && *modestr++ == 'y')
    mode |= S_IROTH;
if (*modestr && *modestr++ == 'w')
    mode |= S_IWOTH;
if (*modestr && *modestr++ == 'x')
    mode |= S_IXOTH;
}
return mkdir (name, mode);
#endif

#ifndef HAVE_W32_SYSTEM

    /* Return a malloced string encoded in UTF-8 from the wide char input
     * string STRING. Caller must free this value. Returns NULL and sets
     * ERRNO on failure. Calling this function with STRING set to NULL is
     * not defined. */
    char *
    wchar_to_utf8 (const wchar_t *string)
    {
        int n;
        char *result;

        n = WideCharToMultiByte (CP_UTF8, 0, string, -1, NULL, 0, NULL, NULL);
        if (n < 0)
        {
            errno = EINVAL;
            return NULL;
        }

        result = xtrymalloc (n+1);
        if (!result)
            return NULL;

        n = WideCharToMultiByte (CP_UTF8, 0, string, -1, result, n, NULL, NULL);
        if (n < 0)
        {
            xfree (result);
            errno = EINVAL;
            result = NULL;
        }

#endif
/* Return a malloced wide char string from an UTF-8 encoded input string STRING. Caller must free this value. Returns NULL and sets ERRNO on failure. Calling this function with STRING set to NULL is not defined. */
wchar_t *
utf8_to_wchar (const char *string)
{
    int n;
    size_t nbytes;
    wchar_t *result;

    n = MultiByteToWideChar (CP_UTF8, 0, string, -1, NULL, 0);
    if (n < 0)
        {
            errno = EINVAL;
            return NULL;
        }
    nbytes = (size_t)(n+1) * sizeof(*result);
    if (nbytes / sizeof(*result) != (n+1))
        {
            errno = ENOMEM;
            return NULL;
        }
    result = xtrymalloc (nbytes);
    if (!result)
        return NULL;
    n = MultiByteToWideChar (CP_UTF8, 0, string, -1, result, n);
    if (n < 0)
        {
            free (result);
            errno = EINVAL;
            result = NULL;
        }
    return result;
}
#endif /*HAVE_W32_SYSTEM*/

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If such an object file uses only numerical parameters, data
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b) Use a suitable shared library mechanism for linking with the
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.876 cpio 2.11 27.el7
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or
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with the Library, with the complete machine-readable "work that
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.
1.883 ebtables 2.0.10

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5. A program that contains no derivative of any portion of the
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   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
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(in case you are wondering where CyberLogin is, EON changed its login
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*
*****************************************************************************
* Convert PKCS#1 encoded private key into RSAPrivateCrtKeySpec.
* 
* <p/>The ASN.1 syntax for the private key with CRT is
* 
* <pre>
* -- Representation of RSA private key with information for the CRT algorithm.
* --
* RSAPrivateKey ::= SEQUENCE {
*   version Version,
*   modulus INTEGER,   -- n

* publicExponent INTEGER, -- e
* privateExponent INTEGER, -- d
* prime1 INTEGER, -- p
* prime2 INTEGER, -- q
* exponent1 INTEGER, -- d mod (p-1)
* exponent2 INTEGER, -- d mod (q-1)
* coefficient INTEGER, -- (inverse of q) mod p
* otherPrimeInfos OtherPrimeInfos OPTIONAL
* }
* </pre>
* *
* @param keyInPkcs1 PKCS#1 encoded key
* @throws java.io.IOException
*/

Found in path(s):
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1.894 linux-kernel 3.16.38

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) *
* * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. *
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* *
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 *
* *
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* *
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
  1) skb->destructor / skb->atm.recycle_buffer
     combined, allow nicstar_free_rx_skb to be called to
     recycle large data buffers
  2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
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* M. Welsh, 6 July 1996
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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for merging the nxt2002 and nxt2004 modules into a
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The actual classes of The Simple API for CSS (SAC) came from:

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1.901 javassist 3.21.0-GA

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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/Dump.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/Dump.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-
1.902 dosfs-tools 3.0.20 10.el7

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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1.907 libxmu 1.1.2 2.el7

1.908 jibx-bind 1.2
1.908.1 Available under license:

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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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for making modifications to it. "Object code" means any non-source
form of a work.

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The "System Libraries" of an executable work include anything, other
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"Major Component", in this context, means a major essential component
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produce the work, or an object code interpreter used to run it.

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1.924 bouncy-castle 1.66

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```
public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,
                          BigInteger a, BigInteger b, BigInteger c, BigInteger d, BigInteger x, 
                          BigInteger y, BigInteger z, BigInteger w);
```

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```
/**
 * Poly1305 message authentication code, designed by D. J. Bernstein.
 *<p>
 * Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
 * consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
 * effective key bits) used in the authenticator.
 *<p>
 * The polynomial calculation in this implementation is adapted from the public domain <a href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation by Andrew M (@floodyberry).
 * @see Poly1305KeyGenerator
 */
```

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```
// now keep space is free to use
```

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/**
 * SPHINCS-256 signer.
 * 
 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being
 * the digests used
 * for message hashing and tree construction are now configurable (within limits...) and that the implementation
 * produces
 * detached signatures.
 * 
 * The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
 * section 1 in https://eprint.iacr.org/2014/795.pdf
 */

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* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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/**
 * Magic value for proprietary OpenSSH private key.
 **/

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Author:   Jun Fujisawa <fujisawa.jun@canon.co.jp>

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C 121 ; WX 600 ; N y ; B 7 -157 592 426 ;
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Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11423
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C 208 ; WX 600 ; N emdash ; B 49 231 661 285 ;
C 225 ; WX 600 ; N AE ; B 3 0 655 562 ;
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No license file was found, but licenses were detected in source scan.

20010904/

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For SVG 1.0:

Namespace:
   http://www.w3.org/2000/svg

Public identifier:
   PUBLIC "

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C 36 ; WX 600 ; N dollar ; B 87 -126 630 666 ;
Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11430
Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11433
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This is SVG Tiny, a proper subset of SVG.

The Scalable Vector Graphics (SVG)
(Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University).
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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

dimensional graphics in XML.

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Revision: $Id: svg11

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tiny-flat.dtd
No license file was found, but licenses were detected in source scan.

# Copyright (C) The Apache Software Foundation. All rights reserved.    #
# This software is published under the terms of the Apache Software License #
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Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Times-Roman.afm
# version 1.1, a copy of which has been included with this distribution in #
# the LICENSE file.  

############################################################################

# This file registers the example Bridge extension as a service for the 
# Bridge context.  
# org.apache.batik.apps.svgbrowser.XMLInputHandler

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/META-INF/services/org.apache.batik.apps.svgbrowser.SquiggleInputHandler

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StartFontMetrics 4.1
Comment Creation Date: Mon Jun 23 16:28:00 1997
Comment UniqueID 43048
Comment VMusage 41139 52164
FontName Courier-Bold
FullName Courier Bold
FamilyName Courier
Weight Bold
ItalicAngle 0
IsFixedPitch true
CharacterSet ExtendedRoman
FontBBox -113 -250 749 801
UnderlinePosition -100
UnderlineThickness 50
Version 003.000
EncodingScheme AdobeStandardEncoding
CapHeight 562
XHeight 439
Ascender 629
Descender -157
StdHW 84
StdVW 106
StartCharMetrics 315
C 32 ; WX 600 ; N space ; B 0 0 0 0 ;
C 33 ; WX 600 ; N exclam ; B 202 -15 398 572 ;
C 34 ; WX 600 ; N quotedbl ; B 135 277 465 562 ;
C 35 ; WX 600 ; N numbersign ; B 56 -45 544 651 ;
C 36 ; WX 600 ; N dollar ; B 82 -126 519 666 ;
C 37 ; WX 600 ; N percent ; B 5 -15 595 616 ;
C 38 ; WX 600 ; N ampersand ; B 36 -15 546 543 ;
C 39 ; WX 600 ; N quoteright ; B 171 277 423 562 ;
C 40 ; WX 600 ; N parenleft ; B 219 -102 461 616 ;
C 41 ; WX 600 ; N parenright ; B 139 -102 381 616 ;
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dimensional graphics in XML.

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(Massachusetts Institute of Technology, Institut National de
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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

dimensional graphics in XML.
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Revision: $Id: svg11

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/com/lowagie/text/pdf/fonts/Courier-Bold.afm
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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-izp/elxrt-jar/org/apache/batik/dom/svg/resources/svg11-
basic.dtd
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#############################################################################

# This file registers the example Bridge extension as a service for the
# Bridge context.
org.apache.batik.extension.svg.BatikBridgeExtension

Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-izp/elxrt-jar/META-INF/services/org.apache.batik.bridge.BridgeExtension
No license file was found, but licenses were detected in source scan.

cos-nonambig = cos-nonambig: \{0\} and \{1\} (or elements from their substitution group) violate "Unique Particle
Attribution".
Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
No license file was found, but licenses were detected in source scan.

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Comment VMusage 14482 68586
FontName Helvetica-BoldOblique
FullName Helvetica Bold Oblique
FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -174 -228 1114 962
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
StdHW 118
StdVW 140
StartCharMetrics 315
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C 33 ; WX 333 ; N exclamation ; B 94 0 397 718 ;
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C 35 ; WX 556 ; N number ; B 60 0 644 698 ;
C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;
C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;
C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;
C 39 ; WX 278 ; N quotationmark ; B 167 445 362 718 ;
C 40 ; WX 333 ; N leftparenthesis ; B 76 -208 470 734 ;
C 41 ; WX 333 ; N rightparenthesis ; B -25 -208 369 734 ;
C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;
C 43 ; WX 584 ; N plus ; B 82 0 610 506 ;
C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;
C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;
C 46 ; WX 278 ; N period ; B 64 0 245 146 ;
C 47 ; WX 278 ; N slash ; B -37 -19 468 737 ;
C 48 ; WX 556 ; N zero ; B 86 -19 617 710 ;
C 49 ; WX 556 ; N one ; B 173 0 529 710 ;
C 50 ; WX 556 ; N two ; B 26 0 619 710 ;
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C 54 ; WX 556 ; N six ; B 85 -19 619 710 ;
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C 56 ; WX 556 ; N eight ; B 69 -19 616 710 ;
C 57 ; WX 556 ; N nine ; B 78 -19 615 710 ;
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C 59 ; WX 333 ; N semicolon ; B 56 -168 351 512 ;
C 60 ; WX 584 ; N less ; B 82 -8 655 514 ;
C 61 ; WX 584 ; N equal ; B 58 87 633 419 ;
C 62 ; WX 584 ; N greater ; B 36 -8 609 514 ;
C 63 ; WX 611 ; N at ; B 165 0 671 727 ;
C 64 ; WX 975 ; N question ; B 186 -19 954 737 ;
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;
C 66 ; WX 722 ; N B ; B 76 0 764 718 ;
C 67 ; WX 722 ; N C ; B 107 -19 789 737 ;
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C 71 ; WX 778 ; N G ; B 108 -19 817 737 ;
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Open Source Used in Cisco Unified Communication Manager 14SU1 MFG 11557
Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11570
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KPX Y uacute Aacute -110
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Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11600
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EndKernPairs
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   Author:   Jun Fujisawa <fujisawa.jun@canon.co.jp>
   Revision: $Id: svg11

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   Revision: $Id: svg11

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Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11673
This is SVG Tiny, a proper subset of SVG.

The Scalable Vector Graphics (SVG)
(Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University).
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Author: Jun Fujisawa <fujisawa.jun@canon.co.jp>
Revision: $Id: svg11

No license file was found, but licenses were detected in source scan.
Open Source Used in Cisco Unified Communication Manager 14SU1 MFG 11676
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KPX L Tcommaaccent -110
KPX L V -110
KPX L W -70
KPX L Y -140
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KPX L Ydieresis -140
KPX L quotedblright -140
Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11697
KPX Otilde Y -70
KPX Otilde Yacute -70
KPX Otilde Ydieresis -70
KPX Otilde comma -40
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KPX P Adieresis -120
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Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11715
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KPX Yacute aogonek -140
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KPX Yacute atilde -70
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KPX Yacute ecaron -140
KPX Yacute ecircumflex -140
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KPX Yacute hyphen -140
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KPX ograve ydieresis -30
KPX ohungarumlaut comma -40
KPX ohungarumlaut period -40
KPX ohungarumlaut v -15
KPX ohungarumlaut w -15
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KPX r uring 15
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KPX racute icircumflex 15
KPX racute idieresis 15
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KPX racute iogonek 15
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KPX racute lslash 15
KPX racute m 25
KPX racute n 25
KPX racute nacute 25
KPX racute ncaron 25
KPX racute ncommaaccent 25
KPX racute ntilde 25
KPX racute p 30
KPX racute period -50
KPX racute semicolon 30
KPX racute t 40
KPX racute tcommaaccent 40
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KPX racute ucircumflex 15
KPX racute udieresis 15
KPX racute ugrave 15
KPX racute uhungarumlaut 15
KPX racute umacron 15
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KPX zdotaccent o -15
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EndKernPairs
EndKernData
EndFontMetrics

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Found in path(s):
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/mozilla/javascript/resources/Messages.properties
* /opt/cola/permits/1124923580_1611197985.64/0/elxrt-zip/elxrt-jar/org/mozilla/javascript/tools/resources/Messages.properties

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11738
No license file was found, but licenses were detected in source scan.

StartFontMetrics 4.1
Comment Creation Date: Thu May 1 15:14:13 1997
Comment UniqueID 43082
Comment VMusage 45775 55535
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FullName ITC Zapf Dingbats
FamilyName ZapfDingbats
Weight Medium
ItalicAngle 0
IsFixedPitch false
CharacterSet Special
FontBBox -1 -143 981 820
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme FontSpecific
StdHW 28
StdVW 90
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C 33 ; WX 974 ; N a1 ; B 35 72 939 621 ;
C 34 ; WX 961 ; N a2 ; B 35 81 927 611 ;
C 35 ; WX 974 ; N a202 ; B 35 72 939 621 ;
C 36 ; WX 980 ; N a3 ; B 35 0 945 692 ;
C 37 ; WX 719 ; N a4 ; B 34 139 685 566 ;
C 38 ; WX 789 ; N a5 ; B 35 -14 755 705 ;
C 39 ; WX 790 ; N a19 ; B 35 -14 755 705 ;
C 40 ; WX 791 ; N a18 ; B 35 -13 761 705 ;
C 41 ; WX 690 ; N a17 ; B 34 138 655 553 ;
C 42 ; WX 960 ; N a11 ; B 35 123 925 568 ;
C 43 ; WX 939 ; N a12 ; B 35 134 904 559 ;
C 44 ; WX 549 ; N a13 ; B 29 -11 516 705 ;
C 45 ; WX 855 ; N a14 ; B 34 59 820 632 ;
C 46 ; WX 911 ; N a15 ; B 35 50 876 642 ;
C 47 ; WX 933 ; N a16 ; B 35 139 899 550 ;
C 48 ; WX 911 ; N a105 ; B 35 50 876 642 ;
C 49 ; WX 945 ; N a17 ; B 35 139 909 553 ;
C 50 ; WX 974 ; N a18 ; B 35 104 938 587 ;
C 51 ; WX 755 ; N a19 ; B 34 -13 721 705 ;
C 52 ; WX 846 ; N a20 ; B 36 -14 811 705 ;
C 53 ; WX 762 ; N a21 ; B 35 0 727 692 ;
C 54 ; WX 761 ; N a22 ; B 35 0 727 692 ;
C 55 ; WX 571 ; N a23 ; B -1 -68 571 661 ;
Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11740

EncodingScheme AdobeStandardEncoding

CapHeight 653
XHeight 441
Ascender 683
Descender -217
StdHW 32
StdVW 76
StartCharMetrics 315
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclaim ; B 39 -11 302 667 ;
C 34 ; WX 420 ; N quotedbl ; B 144 421 432 666 ;
C 35 ; WX 500 ; N numbersign ; B 2 0 540 676 ;
C 36 ; WX 500 ; N dollar ; B 31 -89 497 731 ;
C 37 ; WX 833 ; N percent ; B 79 -13 790 676 ;
C 38 ; WX 778 ; N ampersand ; B 76 -18 723 666 ;
C 39 ; WX 333 ; N quoteright ; B 151 436 290 666 ;
C 40 ; WX 333 ; N parenleft ; B 42 -181 315 669 ;
C 41 ; WX 333 ; N parenright ; B 16 -180 289 669 ;
C 42 ; WX 500 ; N asterisk ; B 128 255 492 666 ;
C 43 ; WX 675 ; N plus ; B 86 0 590 506 ;
C 44 ; WX 250 ; N comma ; B -4 -129 135 101 ;
C 45 ; WX 333 ; N hyphen ; B 49 192 282 255 ;
C 46 ; WX 250 ; N period ; B 27 -11 138 100 ;
C 47 ; WX 278 ; N slash ; B -65 -18 386 666 ;
C 48 ; WX 500 ; N zero ; B 32 -7 497 676 ;
C 49 ; WX 500 ; N one ; B 49 0 409 676 ;
C 50 ; WX 500 ; N two ; B 12 0 452 676 ;
C 51 ; WX 500 ; N three ; B 15 -7 465 676 ;
C 52 ; WX 500 ; N four ; B 1 0 479 676 ;
C 53 ; WX 500 ; N five ; B 15 -7 491 666 ;
C 54 ; WX 500 ; N six ; B 30 -7 521 686 ;
C 55 ; WX 500 ; N seven ; B 75 -8 537 666 ;
C 56 ; WX 500 ; N eight ; B 30 -7 493 676 ;
C 57 ; WX 500 ; N nine ; B 23 -17 492 676 ;
C 58 ; WX 333 ; N colon ; B 50 -11 261 441 ;
C 59 ; WX 333 ; N semicolon ; B 27 -129 261 441 ;
C 60 ; WX 675 ; N less ; B 84 -8 592 514 ;
Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11747
StartKernPairs 2321
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KPX A Odieresis -40
KPX A Ograve -40
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KPX T cleon Omacron -18
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KPX V edotaccent -111
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KPX V emacron -71
KPX V eogonek -111
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KPX V iacute -74
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KPX V idieresis -34
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StartFontMetrics 4.1
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Comment UniqueID 43052
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FamilyName Helvetica
Weight Bold
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UnderlineThickness 50
Version 002.000
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XHeight 532
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StdVW 140
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C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;
C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;
C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;
C 39 ; WX 278 ; N quoteright ; B 69 445 209 718 ;
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C 41 ; WX 333 ; N parenright ; B 19 -208 298 734 ;
C 42 ; WX 389 ; N asterisk ; B 27 387 362 718 ;
C 43 ; WX 584 ; N plus ; B 40 0 544 506 ;
C 44 ; WX 278 ; N comma ; B 64 -168 214 146 ;
C 45 ; WX 333 ; N hyphen ; B 27 215 306 345 ;
C 46 ; WX 278 ; N period ; B 64 0 214 146 ;
C 47 ; WX 278 ; N slash ; B -33 -19 311 737 ;
C 48 ; WX 556 ; N zero ; B 32 -19 524 710 ;
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C 50 ; WX 556 ; N two ; B 26 0 511 710 ;
C 51 ; WX 556 ; N three ; B 27 -19 516 710 ;
C 52 ; WX 556 ; N four ; B 27 0 526 710 ;
C 53 ; WX 556 ; N five ; B 27 -19 516 698 ;
C 54 ; WX 556 ; N six ; B 31 -19 520 710 ;
C 55 ; WX 556 ; N seven ; B 25 0 528 698 ;
C 56 ; WX 556 ; N eight ; B 32 -19 524 710 ;
C 57 ; WX 556 ; N nine ; B 30 -19 522 710 ;
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C 59 ; WX 333 ; N semicolon ; B 92 -168 242 512 ;
C 60 ; WX 584 ; N less ; B 38 -8 546 514 ;
C 61 ; WX 584 ; N equal ; B 40 87 544 419 ;
C 62 ; WX 584 ; N greater ; B 38 -8 546 514 ;
C 63 ; WX 611 ; N question ; B 60 0 556 727 ;
C 64 ; WX 975 ; N at ; B 118 -19 856 737 ;
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C 67 ; WX 722 ; N C ; B 44 -19 684 737 ;
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Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 11804
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1.927 ognl 3.1.28

1.927.1 Available under license:
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1.928 systemd 219-67.el7.2

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Version 2, June 1991

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 */
/**
 * @link FactoryBean] that obtains a WebSphere [ @link javax.management.MBeanServer] reference through WebSphere's proprietary [ @code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the [ @code MBeanServer] for bean references.
 * This FactoryBean is a direct alternative to [ @link MBeanServerFactoryBean],
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
* <p>See the javadocs for WebSphere's
*  
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
/*

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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/context/annotation/ScopedProxyCreator.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/jmx/export/MBeanExportOperations.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/context/LifecycleProcessor.java
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  jar/org/springframework/jmx/export/metadata/ManagedOperation.java
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/ejb/access/LocalStatelessSessionProxyFactoryBean.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/scheduling/TriggerContext.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/remoting/support/RemoteInvocationUtils.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/annotation/ScopeMetadata.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/validation/SmartValidator.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/remoting/RemoteLookupFailureException.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/scheduling/Trigger.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/format/Formatter.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/jndi/IndiTemplate.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/ui/context/support/SimpleTheme.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/validation/BindException.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/support/AbstractXmlApplicationContext.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/format/number/AbstractNumberFormatter.java
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<table>
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<tr>
<th>Path</th>
<th>Description</th>
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<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/org/springframework/context/NoSuchMessageException.java</td>
<td>Error message handling code</td>
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<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/org/springframework/scheduling/config/Task.java</td>
<td>Task scheduling code</td>
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<td>Remote proxy failure handling code</td>
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<td>Simple value wrapper code</td>
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<td>Bean expression context accessor code</td>
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<td>MBean info assembler code</td>
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<td>EJB access exception code</td>
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<td>Groovy object customizer code</td>
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<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/org/springframework/context/expression/BeanFactoryResolver.java</td>
<td>Bean factory resolver code</td>
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<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java</td>
<td>Default remote invocation executor code</td>
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<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/springframework/remoting/support/RemoteInvocationBasedAccessor.java</td>
<td>Remote invocation based accessor code</td>
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<td>Formatter registrar code</td>
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<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/org/springframework/remoting/rmi/JndiRmiServiceExporter.java</td>
<td>JNDI RMI service exporter code</td>
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<tr>
<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/springframework/remoting/support/UrlBasedRemoteAccessor.java</td>
<td>URL based remote accessor code</td>
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<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/springframework/context/event/ContextClosedEvent.java</td>
<td>Context closed event code</td>
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<tr>
<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/springframework/context/weaving/LoadTimeWeaverAware.java</td>
<td>Load-time weaving aware code</td>
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<tr>
<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/springframework/jmx/access/MBeanConnectFailureException.java</td>
<td>MBean connect failure exception code</td>
</tr>
<tr>
<td><em>/opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar</em>/springframework/context/MessageSourceResolvable.java</td>
<td>Message source resolvable code</td>
</tr>
</tbody>
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/jndi/JndiObjectTargetSource.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/jndi/JndiObjectLocator.java
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  jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /opt/cola/permits/1136688068_1613859406_57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java
* /opt/cola/permits/1136688068_1613859406_57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/context/support/ResourceBundleMessageSource.java
* /opt/cola/permits/1136688068_1613859406_57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
* /opt/cola/permits/1136688068_1613859406_57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java

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/**
 * Indicates that a component is only eligible for registration when all
 * [ @link plain #value specified conditions] match.
 *
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see [ @link Condition] for details).
 *
 * <p>The [ @code @Conditional] annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * [ @code @Component], including [ @link Configuration @Configuration] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any [ @link Bean @Bean] method</li>
 * </ul>
 *
 * <p>If a [ @code @Configuration] class is marked with [ @code @Conditional],
 * all of the [ @code @Bean] methods, [ @link Import @Import] annotations, and
 * [ @link ComponentScan @ComponentScan] annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of [ @code @Conditional] annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * [ @code @Conditional] itself is not declared as
 * [ @link java.lang.annotation.Inherited @Inherited]; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * [ @code @Conditional] must not be declared as [ @code @Inherited].
 *
 * @author Phillip Webb
 * @author Sam Brannen
 * @since 4.0
 * @see Condition
 */

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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/scripting/config/LangNamespaceUtils.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java

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*/
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
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  jar/org/springframework/context/support/AbstractMessageSource.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-
  jar/org/springframework/context/event/ApplicationEventMulticaster.java
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1.940 slf4j-simple 1.7.24

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* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-jar/org/slf4j/impl/SimpleLoggerFactory.java
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  jar/org/slf4j/impl/SimpleLogger.java

1.941 libxcursor 1.1.15 1.el7
1.941.1 Available under license:
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1.942 libjpeg 6a
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 * jcinit.c
 *
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 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcinit.c
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/*
 * transupp.c
 *
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 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
ease the task of maintaining jpegtran-like programs that have other user interfaces.

*/

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*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

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* jfdctint.c
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*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, 'Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.

* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctint.c
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* jddctmgr.c
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*
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

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* 
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* 
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9e-tar-gz/jpeg-9e/jidctfst.c

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* jcmarker.c
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* 
* This file contains routines to write JPEG datastream markers.
*/
/*
 * wrle.c
 *
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 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

/*
 * jcmaster.c
 *
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 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

/*
 * jdmainct.c
 */
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*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

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*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* R = Y + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCC => RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
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============================================

README for release 9c of 14-Jan-2018
====================================

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=======================
This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.txt       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.txt     Overview of the JPEG library's internal structure.
filelist.txt      Road map of IJG files.
coderules.txt     Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
=======

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between
different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple
applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
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In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.81 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc9c.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to
fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijc.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS
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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJC therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name “OpenJPEG” promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.
There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent. The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations. IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was. The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable. IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

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Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...
Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

/*
 * jcparam.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
* *
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jcdctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
and it performs related housekeeping chores including coefficient quantization.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

*/
* ckconfig.c
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/ckconfig.c
No license file was found, but licenses were detected in source scan.

*/
* jdct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and inverse DCT modules. These declarations are private to the DCT managers (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdct.h
No license file was found, but licenses were detected in source scan.

*/
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
This file contains routines to read input images in Utah RLE format. The Utah Raster Toolkit library is required (version 3.1 or later).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed RLE format).

Based on code contributed by Mike Lijewski, with updates from Robert Hutchinson.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdrle.c

No license file was found, but licenses were detected in source scan.

This file contains compression data destination routines for the case of emitting JPEG data to memory or to a file (or any stdio stream). While these routines are sufficient for most applications, some will want to use a different destination manager.

IMPORTANT: we assume that fwrite() will correctly transcribe an array of JOCTETs into 8-bit-wide elements on external storage. If char is wider than 8 bits on your machine, you may need to do some tweaking.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatadst.c

No license file was found, but licenses were detected in source scan.

This file contains software version identification.
/*

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jversion.h
No license file was found, but licenses were detected in source scan.

*/

* cjpeg.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd normally redirect to a file or pipe to some other program. Input is either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that don't support pipes. Also, you MUST use the first style if your system doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

*/

* jmemdos.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides an MS-DOS-compatible implementation of the system-dependent portion of the JPEG memory manager. Temporary data can be stored in extended or expanded memory as well as in regular DOS files.
*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.

* Based on code contributed by Ge' Weijers.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
* jctrans.c
*
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcamin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jtrans.c
No license file was found, but licenses were detected in source scan.

I J G J P E G L I B R A R Y :  F I L E  L I S T

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE J P E G L I B R A R Y

======================
Include files:

jpeglib.h: JPEG library's exported data and function declarations.
jconfig.h: Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h: Additional configuration declarations; need not be changed for a standard installation.
jeror.h: Declares JPEG library's error and trace message codes.
jinclude.h: Central include file used by all IJG .c files to reference system include files.
jpegint.h: JPEG library's internal data structures.
jdct.h: Private declarations for forward & reverse DCT subsystems.
jmemsys.h: Private declarations for memory management subsystem.
 jversion.h: Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jeror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapimin.c: Application program interface: core routines for compression.
jcapistd.c: Application program interface: standard compression.
jdapimin.c: Application program interface: core routines for decompression.
jdapistd.c: Application program interface: standard decompression.
jcomapi.c: Application program interface routines common to compression and decompression.
jparam.c: Compression parameter setting helper routines.
jtrans.c: API and library routines for transcoding compression.
jdtrans.c: API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c: Initialization: determines which other modules to use.
jcmaster.c: Master control: setup and inter-pass sequencing logic.
jmainct.c: Main buffer controller (preprocessor => JPEG compressor).
jprepct.c: Preprocessor buffer controller.
jcoeft.c: Buffer controller for DCT coefficient buffer.
jc\color\ c Color space conversion.
jcsample\ c Downsampling.
jcdctmgr\ c DCT manager (DCT implementation selection & control).
jfdctint\ c Forward DCT using slow-but-accurate integer method.
jfdctfst\ c Forward DCT using faster, less accurate integer method.
jfdctflt\ c Forward DCT using floating-point arithmetic.
jchuff\ c Huffman entropy coding.
jcarith\ c Arithmetic entropy coding.
jcmarker\ c JPEG marker writing.
jdatadst\ c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster\ c Master control: determines which other modules to use.
jdinput\ c Input controller: controls input processing modules.
jdmainct\ c Main buffer controller (JPEG decompressor \(\rightarrow\) postprocessor).
jdcoefct\ c Buffer controller for DCT coefficient buffer.
jdpostct\ c Postprocessor buffer controller.
jdmarker\ c JPEG marker reading.
jdhuff\ c Huffman entropy decoding.
jdarith\ c Arithmetic entropy decoding.
jddctmgr\ c IDCT manager (IDCT implementation selection & control).
jdctint\ c Inverse DCT using slow-but-accurate integer method.
jdctfst\ c Inverse DCT using faster, less accurate integer method.
jdctflt\ c Inverse DCT using floating-point arithmetic.
jdsample\ c Upsampling.
jdcolor\ c Color space conversion.
jdmerge\ c Merged upsampling/color conversion (faster, lower quality).
jquant1\ c One-pass color quantization using a fixed-spacing colormap.
jquant2\ c Two-pass color quantization using a custom-generated colormap. Also handles one-pass quantization to an externally given map.
jdatasrc\ c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom\ c Tables for common use in arithmetic entropy encoding and decoding routines.
jerror\ c Standard error handling routines (application replaceable).
jmemmgr\ c System-independent (more or less) memory management code.
jutils\ c Miscellaneous utility routines.

jmemmgr\ c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs\ c "No backing store": assumes adequate virtual memory exists.
jmemansi\ c Makes temporary files with ANSI-standard routine tmpfile().
jmemname\ c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.

jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

C JPEG/DJPEG/JPEGTRAN
====================

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cederror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rddppm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

Documentation (see README for a guide to the documentation files):

README	Master documentation file.
*.txt	Other documentation files.
*.1	Documentation in Unix man page format.
change.log	Version-to-version change highlights.
example.c	Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure	Unix shell script to perform automatic configuration.
configure.ac	Source file for use with Autoconf to generate configure.
lttmain.sh	Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-sh	Install shell script for those Unix systems lacking one.
Makefile.in	Makefile input for configure.
Makefile.am	Source file for use with Automake to generate Makefile.in.
ckconfig.c	Program to generate jconfig.h on non-Unix systems.
jconfig.txt	Template for making jconfig.h by hand.
mak*.*	Sample makefiles for particular systems.
jconfig.*	Sample jconfig.h for particular systems.
libjpeg.map	Script to generate shared library with versioned symbols.
libjpeg.pc.in	libjpeg.pc pkg-config file input for configure.
I.JG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines
with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed data stream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation,
and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downscaled data must
provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are
hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data
             |               |
             ------------------ controller ------------------
The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

- Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
- In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
 ||-- Preprocessing controller --|
 | | |-- Downsampling
|-- Preprocessing controller --|
 | |-- Forward DCT, quantize
 ||-- Coefficient controller --|
 | | |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:
* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these
objects:

* Master control: determines the number of passes required, controls overall
  and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted
  by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final
  destination (e.g., a file). The destination manager supplied with the
  library knows how to write to a stdio stream or to a memory buffer;
  for other behaviors, the surrounding application may provide its own
  destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays
  (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages;
  determines handling of nonfatal errors. The surrounding application may
  override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports.
  This object represents an optional callback to the surrounding application:
  if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are
defined as separate objects in order to simplify application-specific
customization of the JPEG library. A surrounding application may override
individual methods or supply its own all-new implementation of one of these
objects. The object interfaces for these objects are therefore treated as
part of the application interface of the library, whereas the other objects
are internal to the library.

The error handler and memory manager are shared by JPEG compression and
decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Main controller --|
 | |-- Coefficient controller --|
 | | |-- Dequantize, Inverse DCT
 ||-- Entropy decoding
 | | |-- Upsampling
 ||-- Postprocessing controller --|-- Colorspace conversion
 | | |-- Color quantization
```
As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.
* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.
*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller’s DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.
*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;  // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;  // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be \( \geq 0 \). This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use.

The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.
On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment).

We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman
decoder has to be able to undo assignments of newly nonzero coefficients if it
suspends before the MCU is complete, since decoding requires distinguishing
previously-zero and previously-nonzero coefficients. This is a bit tedious
but probably won't have much effect on performance. Other variants of Huffman
decoding need not worry about this, since they will just store the same values
again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its
modifiable state is quite large and couldn't be copied cheaply. Instead it
would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary
point. It does so by backing up to the start of the marker parameter segment,
so the data buffer must be big enough to hold the largest marker of interest.
Again, a couple KB should be adequate. (A special "skip" convention is used
to bypass COM and APPn markers, so these can be larger than the buffer size
without causing problems; otherwise a 64K buffer would be needed in the worst
case.)

The JPEG marker writer currently does *not* cope with suspension.
We feel that this is not necessary; it is much easier simply to require
the application to ensure there is enough buffer space before starting. (An
empty 2K buffer is more than sufficient for the header markers; and ensuring
there are a dozen or two bytes available before calling jpeg_finish_compress()
will suffice for the trailer.) This would not work for writing multi-scan
JPEG files, but we simply do not intend to support that capability with
suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of
memory, and it manages large "virtual" data arrays on machines where the
operating system does not provide virtual memory. Note that the same
memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or
decompression master record, and they will be released when that master
record is destroyed.

The memory manager does not provide explicit deallocation of objects.
Instead, objects are created in "pools" of free storage, and a whole pool
can be freed at once. This approach helps prevent storage-leak bugs, and
it speeds up operations whenever malloc/free are slow (as they often are).
The pools can be regarded as lifetime identifiers for objects. Two
pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)
Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects.
(We don’t bother to factor in the space needed for small objects, on the grounds that it isn’t worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

   The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):
jpeg_mem_init, jpeg_mem_term - system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small - interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large - interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available - estimate available memory

jpeg_open_backing_store - create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/structure.txt
No license file was found, but licenses were detected in source scan.

/*
* jcmainct.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
*/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcmainct.c

No license file was found, but licenses were detected in source scan.

/*
  * jidctint.c
  *
  * Copyright (C) 1991-1998, Thomas G. Lane.
  * Modification developed 2002-2016 by Guido Vollbeding.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains a slow-but-accurate integer implementation of the
  * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
  * must also perform dequantization of the input coefficients.
  *
  * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
  * on each row (or vice versa, but it's more convenient to emit a row at
  * a time). Direct algorithms are also available, but they are much more
  * complex and seem not to be any faster when reduced to code.
  *
  * This implementation is based on an algorithm described in
  * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
  * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
  * The primary algorithm described there uses 11 multiplies and 29 adds.
  * We use their alternate method with 12 multiplies and 32 adds.
  * The advantage of this method is that no data path contains more than one
  * multiplication; this allows a very simple and accurate implementation in
  * scaled fixed-point arithmetic, with a minimal number of shifts.
  *
  * We also provide IDCT routines with various output sample block sizes for
  * direct resolution reduction or enlargement and for direct resolving the
  * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
  * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
  *
  * For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.c
 *
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* jmemsys.h
* 
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* 
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains upsampling routines.
* 
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
* 
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.
/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables file Read quantization tables from text file
 * -scans file Read scan script from text file
 * -quality N[,N,...] Set quality ratings
 * -qslots N[,N,...] Set component quantization table selectors
 * -sample HxV[,HxV,...] Set component sampling factors
 */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 */

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdinput.c
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/*
 * jmemname.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a generic implementation of the system-dependent
 * portion of the JPEG memory manager. This implementation assumes that
you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoeftc.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcoeftc.c
No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdin stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * jmemmac.c provides an Apple Macintosh implementation of the system-
 * dependent portion of the JPEG memory manager.
 *
 * If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
 * JPEG_INTERNALS part of jconfig.h.
 *
 * jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
 * instead of malloc and free. It accurately determines the amount of
 * memory available by using CompactMem. Notice that if left to its
 * own devices, this code can chew up all available space in the
 * application's zone, with the exception of the rather small "slop"
 * factor computed in jpeg_mem_available(). The application can ensure
 * that more space is left over by reducing max_memory_to_use.
 *
 * Large images are swapped to disk using temporary files and System 7.0+'s
 * temporary folder functionality.
Note that jmemmac.c depends on two features of MacOS that were first introduced in System 7: FindFolder and the FSSpec-based calls. If your application uses jmemmac.c and is run under System 6 or earlier, and the jpeg library decides it needs a temporary file, it will abort, printing error messages about requiring System 7. (If no temporary files are created, it will run fine.)

If you want to use jmemmac.c in an application that might be used with System 6 or earlier, then you should remove dependencies on FindFolder and the FSSpec calls. You will need to replace FindFolder with some other mechanism for finding a place to put temporary files, and you should replace the FSSpec calls with their HFS equivalents:

- FSpDelete -> HDelete
- FSpGetFInfo -> HGetFInfo
- FSpCreate -> HCreate
- FSpOpenDF -> HOpen *** Note: not HOpenDF ***
- FSMakeFSSpec -> (fill in spec by hand.)

(Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen, which is on all HFS macs. HOpenDF is a System 7 addition which avoids the ages-old problem of names starting with a period.)

Contributed by Sam Bushell (jsam@iagu.on.net) and Dan Gildor (gyld@in-touch.com).

Contributed by Sam Bushell (jsam@iagu.on.net) and Dan Gildor (gyld@in-touch.com).

*/

Found in path(s):
/opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmac.c

No license file was found, but licenses were detected in source scan.

/*
wrppm.c

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains routines to write output images in PPM/PGM format.
The extended 2-byte-per-sample raw PPM/PGM formats are supported.
The PBMPLUS library is NOT required to compile this software
(but it is highly useful as a set of PPM image manipulation programs).

These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrppm.c
No license file was found, but licenses were detected in source scan.

*/
* jcarith.c
*
* Developed 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy encoding routines for JPEG
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcarith.c
No license file was found, but licenses were detected in source scan.

*/
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
 ***************************************************************
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
 * this code has been modified to output "uncompressed GIF" files.       *
 * There is no trace of the LZW algorithm in this file.                *
 ***************************************************************
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 */
/*
 * This code is loosely based on ppmtogif from the PBMPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.
 * Permission to use, copy, modify, and distribute this software and its
 * documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided "as is" without express or
implied warranty.

We are also required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdin stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
  up to the start of the current MCU. To do this, we copy state variables
  into local working storage, and update them back to the permanent
  storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdhuff.c

No license file was found, but licenses were detected in source scan.

/*
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
 * fundamental assumptions even hold with an irregularly spaced color map.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant2.c

No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 *   virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 *   backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have
tried to make this software extremely portable and flexible, so that it can be
adapted to almost any environment. The downside of this decision is that the
installation process is complicated. We have provided shortcuts to simplify
the task on common systems. But in any case, you will need at least a little
familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger
program's installation procedure may take care of configuring the IJG code.
For example, Ghostscript's installation script will configure the IJG code.
You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files
where you want them). Read further if you run into snags or want to customize
the code for your system.

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Configuring the software:
using the automatic "configure" script
using one of the supplied jconfig and makefile files
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BEFORE YOU START
================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
==========================

To configure the IJG code for your system, you need to create two files:

* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.

(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:

* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type

./configure

and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions
for GNU configure scripts. It makes a few assumptions that you may want to
override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say
   ./configure --disable-shared
If you want to build libjpeg only as a shared library, say
   ./configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library
building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
To force a particular compiler to be selected, use the CC option, for example
   ./configure CC='cc'
The same method can be used to include any unusual compiler switches.
For example, on HP-UX you probably want to say
   ./configure CC='cc -Aa'
to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
You can override this by saying, for example,
   ./configure CFLAGS='-O2'
if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files
into /usr/local/bin, /usr/local/man, etc. You can specify an installation
prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG
software's internal virtual memory mechanism. To do this, give the option
   "--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
This is discussed in more detail under "Selecting a memory manager", below.
You probably don't need to worry about this on reasonably-sized Unix machines,
unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling
or working in a network of multiple machine types; but if you need those
features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

edef repd otad
If you have one of these systems, you can just use the provided configuration files:

**Makefile** | **jconfig file** | **System and/or compiler**
--- | --- | ---
makefile.manxconfig.manxAmiga, Manx Aztec C | makefile.manx | Manx Aztec C
makefile.sasjconfig.sasAmiga, SAS C | makefile.sas | SAS C
makeproj.macjconfig.macApple Macintosh, Metrowerks CodeWarrior | makeproj.mac | MacApple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st| config.stAtari ST/STE/TT, Pure C or Turbo C | makefile.bccjconfig.bccMS-DOS or OS/2, Borland C
makefile.djconfig.djMS-DOS, DJGPP (Delorie's port of GNU C) | makefile.dj | MS-DOS, DJGPP
makefile.mc6jconfig.mc6MS-DOS, Microsoft C (16-bit only) | makefile.mc6 | MS-DOS, Microsoft C (16-bit only)
makefile.watjconfig.watMS-DOS, OS/2, or Windows NT, Watcom C | makefile.wat | Watcom C
makefile.vcjconfig.vcWindows, MS Visual C++ | makefile.vc | Visual C++
makefile.vsjconfig.vcWindows, MS Visual C++ 6 Developer Studio | makefile.vc6 | Visual C++ 6 Developer Studio
makefile.b32jconfig.vcWindows, Borland C++ 32-bit (bcc32) | makefile.b32 | Borland C++ 32-bit (bcc32)
makesjconfig.vmsDigital VMS, with MMS software | makesj | Digital VMS, with MMS software
makefile.vmsjconfig.vmsDigital VMS, without MMS software | makesj | Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

### Configuring the software by hand

-------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES"
in jconfig.h.) You may want to start from one of the other makefiles if
there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular
you may want to change the CC and CFLAGS definitions. For instance, if you
are using GCC, set CC=gcc. If you had to use any compiler switches to get
ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up
project files (or whatever you do use) to compile all the source files and
link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
See the file lists in any of the makefiles to find out which files go into
each program. Note that the provided makefiles all make a "library" file
libjpeg first, but you don't have to do that if you don't want to; the file
lists identify which source files are actually needed for compression,
decompression, or both. As a last resort, you can make a batch script that
just compiles everything and links it all together; makefile.vms is an example
of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll
need to make:

Command line style
--------------------

These programs can use a Unix-like command line style which supports
redirection and piping, like this:
  cjpeg inputfile >outputfile
  cjpeg <inputfile >outputfile
  source program | cjpeg >outputfile
The simpler "two file" command line style is just
  cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary
data fed through stdin/stdout; this is true for some MS-DOS compilers, for
example. If you're not on a Unix system, it's safest to assume you need
two-file style. (But if your compiler provides either the Posix-standard
fdopen() library routine or a Microsoft-compatible setmode() routine, you
can safely use the Unix command line style, by defining USE_FDOPEN or
USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to
allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=======================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
======================

As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg.
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the
default compression parameters are lossy.) If you can generate duplicates of the testing* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testing* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
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Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want
to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).
Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If
you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find
that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.) After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line `.c.o:; $(cc) $< $(cflags) -c -o $@`. Remove the lines `$$(RM) libjpeg.o` and `$$(AR2) libjpeg.o` and the `jconfig.h` dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP;".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't
depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

**Cray:**

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

"#pragma novector" just before the loop

```c
for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[++p] = (char) l;
```

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).

[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

**HP-UX:**

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

```
./configure CC='cc -Aa'
```

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add

" -Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

**Macintosh, generic comments:**

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on
the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you’d really want to develop a Mac-style user interface. There isn’t a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell’s free “To JPEG” applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part. The CodeWarrior source code is available from http://www.pobox.com/~jsam.

2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn’t been updated since IJG v4, and the library’s API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.)

NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing “malloc” and “free” by “NewPtr” and “DisposePtr”, because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior
project files for the library and the testbed applications, then build the
library and applications. (Thanks to Dan Sears and Don Agro for this nifty
hack, which saves us from trying to maintain CodeWarrior project files as part
of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above)
includes detailed build instructions for Think C; it's probably somewhat
out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows.
You'll have to prepare project files for the programs; we don't include any
in the distribution since they are not text files. Use the file lists in
any of the supplied makefiles as a guide. Also add the ANSI and Unix C
libraries in a separate segment. You may need to divide the JPEG files into
more than one segment; we recommend dividing compression and decompression
modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is
called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout
don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float.
jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2.
Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C,
but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O
if you have that compiler version. (Use "cc -V" to check the version.)
Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory
models (i.e., data pointers are 16 bits unless explicitly declared "far";
code pointers can be either size). You may be able to use small model to
compile cjpeg or djpeg by itself, but you will probably have to use medium
model for any larger application. This won't make much difference in
performance. You *will* take a noticeable performance hit if you use a
large-data memory model, and you should avoid "huge" model if at all
possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use
a small-data memory model; be sure it is NOT defined if you use a large-data
model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmembos.c, should be used if possible. It needs some assembly-code routines which are in jmembosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmembosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmembos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmembos.c for some reason --- for example, because you don't have an assembler to assemble jmembosa.asm --- you'll have to fall back to jmennans.c or jmennname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmennans.c or jmennname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmembos.c. Use jmennobs.c if the environment supplies adequate virtual memory, otherwise use jmennans.c or jmennname.c.

You'll still need to be careful about binary I/O through stdin/stdout.
See the last paragraph of the previous section.

**MS-DOS, Borland C:**

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

**MS-DOS, Microsoft C:**

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-O1 or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:
Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
in (output_message in jerror.c) with
MessageBox(EventArgs.GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp...
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```
define MAX_ALLOC_CHUNK 65520L/* Maximum request to malloc() */
```

into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.)

jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly,
you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist) \
    type (_far _pascal *methodname) arglist

For a 32-bit DLL you may want something like:

#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
}

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:
So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"?)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" [...] around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app\Release` to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):
We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vs setup-v15
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying
   ./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to
be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/install.txt
No license file was found, but licenses were detected in source scan.

/ *
* djpeg.c
* *
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* *
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djjpeg [options] inputfile outputfile
* djjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
 to establish a common coding style. The goal of using similar coding styles
 is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
 Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
 Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}

with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif

which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).
If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/coderules.txt
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
/* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES
/* Does your compiler support the declaration "unsigned char"? */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void. */
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc(). */
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
/* #define const */

/* Define this if an ordinary "char" type is unsigned. */
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal. */
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file. */
/* #define HAVE_STDDEF_H */

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
/* #define HAVE_STDLIB_H */

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>. */
/* #undef NEED_BSD_STRINGS */

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead. */
/* #undef NEED_SYS_TYPES_H */

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.) */
#undef NEED_FAR_POINTERS
/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#if defined _WIN32
#ifndef __RPCNDR_H__
#undef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */
#if defined JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */
/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifdef JPEG_CJPEGCJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEGCJPEG */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c

No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg’s "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPPLUS library, which is:
 ** Copyright (C) 1988 by Jef Poskanzer.
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
**
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/ *
* jcprepct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jcprepct.c
No license file was found, but licenses were detected in source scan.

/ *
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/
No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

No license file was found, but licenses were detected in source scan.

/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
* jquant1.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
* jccolor.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
* jdarith.c
*
* Developed 1997-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains portable arithmetic entropy decoding routines for JPEG

* Both sequential and progressive modes are supported in this single module.

* Suspension is not currently supported in this module.

*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdarith.c

No license file was found, but licenses were detected in source scan.

/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in Targa format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/wrtarga.c

No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpegc.c, and partly to djpegc.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 12054
/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications.  As they stand, they assume input from
 * an ordinary stdio stream.  They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */

/* Portions of this code are based on the PBMPLUS library, which is:

** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jmemnobs.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 * 
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/cderror.h

No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

TABLE OF CONTENTS
-----------------
Overview:

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 12057
You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG
library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application’s responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image’s size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG
Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
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Data formats
-----------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always
processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12.
(See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
--------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into
the JPEG object's "err" field, and then call jpeg_create_compress() to
initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail
if you are out of memory. In that case it will exit via the error handler;
that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a
"data destination" module. The library includes one data destination
module which knows how to write to a stdio stream. You can use your own
destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio
stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the
output file unchanged. On non-Unix systems the stdio library may perform
newline translation or otherwise corrupt binary data. To suppress this
behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See
cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3),
if that's more convenient. You may not change the destination between
calling jpeg_start_compress() and jpeg_finish_compress().
3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- image_width: Width of image, in pixels
- image_height: Height of image, in pixels
- input_components: Number of color channels (samples per pixel)
- in_color_space: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.
Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines.

This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don’t forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then
you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.
Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that
has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.
Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).
6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (i.e., the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `djjpeg`.

The library maintains a count of the number of scanlines returned so far in the `output_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against `image_height`, unless you never use scaling. The `image_height` field is the height of the original unscaled image.) The return value always equals the change in the value of `output_scanline`.

If you don't use a suspending data source, it is safe to assume that `jpeg_read_scanlines()` reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that `jpeg_read_scanlines()` fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls `jpeg_read_scanlines()` repeatedly until the whole image has been read.

7. `jpeg_finish_decompress(...);

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the `stdio` source manager, don't forget to close the source `stdio`
stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don’t need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program
is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling
cinfo fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`
This routine sets all JPEG parameters to reasonable defaults, using
only the input image's color space (field in_color_space, which must
already be set in cinfo). Many applications will only need to use
this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`
Sets the JPEG file's colorspace (field jpeg_color_space) as specified,
and sets other color-space-dependent parameters appropriately. See
"Special color spaces", below, before using this. A large number of
parameters, including all per-component parameters, are set by this
routine; if you want to twiddle individual parameters you should call
`jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`
Selects an appropriate JPEG colorspace based on cinfo->in_color_space,
and calls `jpeg_set_colorspace()`. This is actually a subroutine of
`jpeg_set_defaults()`. It's broken out in case you want to change
just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`
Constructs JPEG quantization tables appropriate for the indicated
quality setting. The quality value is expressed on the 0..100 scale
recommended by IJG (cjpeg's "-quality" switch uses this routine).
Note that the exact mapping from quality values to tables may change
in future IJG releases as more is learned about DCT quantization.
If the force_baseline parameter is TRUE, then the quantization table
entries are constrained to the range 1..255 for full JPEG baseline
compatibility. In the current implementation, this only makes a
difference for quality settings below 25, and it effectively prevents
very small/low quality files from being generated. The IJG decoder
is capable of reading the non-baseline files generated at low quality
settings when force_baseline is FALSE, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
boolean force_baseline)`
Same as `jpeg_set_quality()` except that the generated tables are the
sample tables given in the JPEG spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.
int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can’t be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
“#if JPEG_LIB_VERSION >= 61” is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling jpeg_set_colorsphere(), because entropy table assignment in jpeg_set_colorsphere() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components. If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.
UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except
for grayscale where 1,1 is used.

```c
int quant_tbl_no
```
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

```c
int dc_tbl_no
tab ac_tbl_no
```
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

```c
int component_index
```
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
----------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

```c
JDIMENSION image_width
```
Width and height of image

```c
JDIMENSION image_height
```

```c
int num_components
```
Number of color components

```c
J_COLOR_SPACE jpeg_color_space
```
Colorspace of image

```c
boolean saw_JFIF_marker
```
TRUE if a JFIF APP0 marker was seen

```c
UINT8 JFIF_major_version
```
Version information from JFIF marker

```c
UINT8 JFIF_minor_version
```

```c
UINT8 density_unit
```
Resolution data from JFIF marker

```c
UINT16 X_density
```

```c
UINT16 Y_density
```

```c
boolean saw_Adobe_marker
```
TRUE if an Adobe APP14 marker was seen

```c
UINT8 Adobe_transform
```
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files
adhere to the JFIF or Adobe conventions, and the decoder will recognize these
correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the
returned image are:

**J_COLOR_SPACE out_color_space**
Output color space. `jpeg_read_header()` sets an appropriate default
based on `jpeg_color_space`; typically it will be RGB or grayscale.
The application can change this field to request output in a different
colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale
output from a color file. (This is useful for previewing: grayscale
output is faster than full color since the color components need not
be processed.) Note that not all possible color space transforms are
currently implemented; you may need to extend `jdcolor.c` if you want an
unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction `scale_num/scale_denom`. Currently,
the supported scaling ratios are `M/N` with all `M` from 1 to 16, where
`N` is the source DCT size, which is 8 for baseline JPEG. (The library
design allows for arbitrary scaling ratios but this is not likely
to be implemented any time soon.) The values are initialized by
`jpeg_read_header()` with the source DCT size. For baseline JPEG
this is 8/8. If you change only the `scale_num` value while leaving
the other unchanged, then this specifies the DCT scaled size to be
applied on the given input. For baseline JPEG this is equivalent
to `M/8` scaling, since the source DCT size for baseline JPEG is 8.
Smaller scaling ratios permit significantly faster decoding since
fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE,
meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color
map (the actual number of colors is returned in a different field).
Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color
map for the image. This usually looks a lot better than the one-size-
fits-all colormap that is used otherwise. Default is TRUE. Ignored
when the application supplies its own color map.

J_DITHER_MODE  dither_mode
Selects color dithering method.  Supported values are:
JDITHER_NONE  no dithering: fast, very low quality
JDITHER_ORDERED  ordered dither: moderate speed and quality
JDITHER_FS  Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS.  (At present, ordered dither is implemented only in the single-pass, standard-colormap case.  If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields.  colormap is set to NULL by jpeg_read_header().  The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size.  Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY  colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns.  Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int  actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD  dct_method
Selects the algorithm used for the DCT step.  Choices are the same as described above for compression.

boolean  do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean  do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not.  Default is TRUE.  Early
progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

```c
boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
```

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

```c
JDIMENSION output_width	Actual dimensions of output image.
JDIMENSION output_height
int out_color_components	Number of color components in out_color_space.
int output_components	Number of color components returned.
int rec_outbuf_height	Recommended height of scanline buffer.
```

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The
existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional colorspaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation.

jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.

You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space.

jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header’s guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot “fix” this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.
The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

**error_exit (j_common_ptr cinfo)**
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

**output_message (j_common_ptr cinfo)**
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

**format_message (j_common_ptr cinfo, char * buffer)**
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second “add-on” message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)

---------------------------------------------
The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

```
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length;
```
ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional framishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
-------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer
after a suspension.  Write only the data up to the current position of
next_output_byte/free_in_buffer.  The data beyond that point will be
regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential
for efficiency; you don't want the compressor to suspend often.  (In fact, an
overly small buffer could lead to infinite looping, if a single MCU required
more data than would fit in the buffer.)  We recommend a buffer of at least
several Kbytes.  You may want to insert explicit code to ensure that you don't
call jpeg_write_scanlines() unless there is a reasonable amount of space in
the output buffer; in other words, flush the buffer before trying to compress
more data.

The compressor does not allow suspension while it is trying to write JPEG
markers at the beginning and end of the file.  This means that:
* At the beginning of a compression operation, there must be enough free
  space in the output buffer to hold the header markers (typically 600 or
  so bytes).  The recommended buffer size is bigger than this anyway, so
  this is not a problem as long as you start with an empty buffer.  However,
  this restriction might catch you if you insert large special markers, such
  as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the
  output buffer to emit any buffered data and the final EOI marker.  In the
  current implementation, half a dozen bytes should suffice for this, but
  for safety's sake we recommend ensuring that at least 100 bytes are free
  before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend.
This means you cannot use suspension with multi-pass operating modes, namely
Huffman code optimization and multiple-scan output.  Those modes write the
whole file during jpeg_finish_compress(), which will certainly result in
buffer overrun.  (Note that this restriction applies only to compression,
not decompression.  The decompressor supports input suspension in all of its
operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply
returns FALSE (except perhaps during error recovery, as discussed below).
This will cause the decompressor to return to its caller with an indication
that suspension has occurred.  This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already
  completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.
The surrounding application must recognize these cases, load more data into
the input buffer, and repeat the call.  In the case of jpeg_read_scanlines(),
increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)
The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality.
setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.
Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here “multi-scan” means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
-------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```
This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

while (!jpeg_input_complete(&cinfo))
and the start-output call should read

jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan.
scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting.
the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after `jpeg_start_decompress()` is called:

* `dct_method` can be changed before each call to `jpeg_start_output()`. For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* `do_block_smoothing` can be changed before each call to `jpeg_start_output()`. This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by `cinfo.two_pass_quantize` = `FALSE` and `cinfo.colormap` = `NULL`.

2. Single-pass quantization to an application-supplied colormap.
   Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.

3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by `cinfo.two_pass_quantize` = `TRUE` and `cinfo.colormap` = `NULL`.
These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant: Fixed color cube colormap
- enable_external_quant: Externally-supplied colormap
- enable_2pass_quant: Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NUL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it’s a bit klugy, but it’s necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (i.e., if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the
feature. Rather, reuse of an object provides support for abbreviated JPEG
datastreams. Object reuse can also simplify processing a series of images in
a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization
and Huffman tables. In a situation where many images will be stored or
transmitted with identical tables, this may represent an annoying overhead.
The JPEG standard therefore permits tables to be omitted. The standard
defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode
  the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or
  all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams
  contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s)
into the decoder beforehand. This can be accomplished by reading a separate
tables-only file. A variant scheme uses a series of images in which the first
image is an interchange (complete) datastream, while subsequent ones are
abbreviated and rely on the tables loaded by the first image. It is assumed
that once the decoder has read a table, it will remember that table until a
new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate
the correct tables with an abbreviated image. While abbreviated datastreams
can be useful in a closed environment, their use is strongly discouraged in
any situation where data exchange with other applications might be needed.
Caveat designer.

The JPEG library provides support for reading and writing any combination of
tables-only datastreams and abbreviated images. In both compression and
decompression objects, a quantization or Huffman table will be retained for
the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the
compressor not to emit some or all of the tables it is using. Each
quantization and Huffman table struct contains a boolean field "sent_table",
which normally is initialized to FALSE. For each table used by the image, the
header-writing process emits the table and sets sent_table = TRUE unless it is
already TRUE. (In normal usage, this prevents outputting the same table
definition multiple times, as would otherwise occur because the chroma
components typically share tables.) Thus, setting this field to TRUE before
calling jpeg_start_compress() will prevent the table from being written at
all.

If you want to create a "pure" abbreviated image file containing no tables,
just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the
tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```
In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
--------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an
identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)
When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

jpeg_save_markers(cinfo, marker_code, length_limit)

where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition.
of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The
library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downscaled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of block_size valid samples, and there must be a multiple of block_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data. Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is
measured in terms of the component with the largest \( v_{\text{samp\_factor}} \).

\texttt{jpeg\_write\_raw\_data()} processes one MCU row per call, which is to say \( v_{\text{samp\_factor}} \times \text{block\_size} \) sample rows of each component. The passed \texttt{num\_lines} value must be at least \( \max v_{\text{samp\_factor}} \times \text{block\_size} \), and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

\[
\begin{align*}
\text{cinfo->comp\_info}[i].\text{width\_in\_blocks} \times \text{block\_size} & \text{ samples per row for } i \\
\text{cinfo->comp\_info}[i].\text{height\_in\_blocks} \times \text{block\_size} & \text{ rows in image for } i
\end{align*}
\]

after \texttt{jpeg\_start\_compress()} has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than \text{block\_size} samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

\[
\begin{align*}
\text{cinfo->comp\_info}[0].h_{\text{samp\_factor}} &= 2 \text{ for } Y \\
\text{cinfo->comp\_info}[0].v_{\text{samp\_factor}} &= 2 \\
\text{cinfo->comp\_info}[1].h_{\text{samp\_factor}} &= 1 \text{ for } Cb \\
\text{cinfo->comp\_info}[1].v_{\text{samp\_factor}} &= 1 \\
\text{cinfo->comp\_info}[2].h_{\text{samp\_factor}} &= 1 \text{ for } Cr \\
\text{cinfo->comp\_info}[2].v_{\text{samp\_factor}} &= 1
\end{align*}
\]

and suppose that the nominal image dimensions (\texttt{cinfo->image\_width} and \texttt{cinfo->image\_height}) are 101x101 pixels. Then \texttt{jpeg\_start\_compress()} will compute downsampled\_width = 101 and width\_in\_blocks = 13 for Y, downsampled\_width = 51 and width\_in\_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least \( 13 \times 8 = 104 \) columns and rows, the Cb/Cr data to at least \( 7 \times 8 = 56 \) columns and rows. The MCU height is \( \max v_{\text{samp\_factor}} = 2 \) DCT rows so you must pass at least 16 scanlines on each call to \texttt{jpeg\_write\_raw\_data()}, which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of \( 7 \times 16 = 112 \) "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, \texttt{jpeg\_write\_raw\_data()} will return 0.

In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing.

You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampled data (it is set TRUE by jpeg_read_header()).
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager’s access_virt_barray method (see Memory management, below, and also read structure.txt’s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out
interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.
When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg Suppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct,
make sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You
can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

  long pass_counter;/* work units completed in this pass */
  long pass_limit;/* total number of work units in this pass */
  int completed_passes;/* passes completed so far */
  int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)

--------------------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.

Memory management

---------------------

This section covers some key facts about the JPEG library's built-in memory
manager. For more info, please read structure.txt's section about the memory
manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the
memory manager. If necessary, you can replace the "back end" of the memory
manager to control allocation yourself (for example, if you don't want the
library to use malloc() and free() for some reason).
Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with
Memory usage

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.
Library compile-time options

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional
functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
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The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg’s select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORTEXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
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The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.
Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (e.g., about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

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/*
 * jfdctfl.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

*/

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/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

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/*
 * wrbmp.c
 *
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 *
 * This file contains routines to write output images in Microsoft "BMP" format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

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/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
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* This file is part of the Independent JPEG Group's software.
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* 
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
* 
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

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* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jinclude.h
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/*
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
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* 
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

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/*
* jcapistd.c
*
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
* /

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/*
 * transupp.h
 *
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 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

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/*
 * rdgif.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
*******************************************************************************/
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that. *
*****************************************************************************
*
* We are required to state that
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* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

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/*
* rdgif.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
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/*
* jdapistd.c
*
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
We thus must separate this file from jdapimin.c to avoid linking the whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
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/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to stderr is the right thing to do. Many applications will want to replace some or all of these routines.
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile, you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket, which is what happens to output to stderr under most Windows C compilers.
 * These routines are used by both the compression and decompression code.
 */

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/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
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 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains application interface code for the decompression half of the JPEG library. These are the "minimum" API routines that may be needed in either the normal full-decompression case or the transcoding-only case.
 * Most of the routines intended to be called directly by an application are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/1103638654_1611231513.28/0/jpeg-9c-tar-gz/jpeg-9c/jdapimin.c

1.943 pyyaml 3.10 11.el7
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1.944 dropbear 2016.74
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<matt@ucc.asn.au>, and was adopted by Gerrit Pape <pape@smarden.org> on
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Upstream Author: Matt Johnston <matt@ucc.asn.au>

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called by a name other than "ssh" or "Secure Shell".

=====

loginrec.c
loginrec.h
atomicio.h
atomicio.c
and strlcat() (included in util.c) are from OpenSSH 3.6.1p2, and are licensed under the 2 point BSD license.

loginrec is written primarily by Andre Lucas, atomicio.c by Theo de Raadt.

strlcat() is (c) Todd C. Miller

=====

Import code in keyimport.c is modified from PuTTY's import.c, licensed as follows:

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=====

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 *
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 *
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 *
 * curve25519-donna: Curve25519 elliptic curve, public key function
 *
 * http://code.google.com/p/curve25519-donna/
 *
 * Adam Langley <agl@imperialviolet.org>
 *
 * Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
 *
 * More information about curve25519 can be found here
 * http://cr.yp.to/ecdh.html
 *
 * djb's sample implementation of curve25519 is written in a special assembly
 * language called qhasm and uses the floating point registers.
 *
 * This is, almost, a clean room reimplementation from the curve25519 paper. It
 * uses many of the tricks described therein. Only the crecip function is taken
 * from the sample implementation.
 */
1.945 tcp-dump 4.9.2-4.el7.1
1.945.1 Available under license :

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1.946 pycurl 7.19.0 19.el7
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DFAValidator.java
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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/stax/WstxInputFactory.java
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1.964 jaxb-runtime 2.0.2

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1.974 commons-digester 1.6
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  jar/org/apache/commons/digester/BeanPropertySetterRule.java
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   jar/org/apache/commons/digester/pluginsestrategies/FinderFromResource.java
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* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/package.html
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  jar/org/apache/commons/digester/plugins/InitializableRule.java
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  jar/org/apache/commons/digester/plugins/strategies/FinderFromClass.java
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  jar/org/apache/commons/digester/SetTopRule.java
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jar/org/apache/commons/digester/SimpleRegexMatcher.java
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  jar/org/apache/commons/digester/xmlrules/DigesterLoadingException.java
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1.977 idna 2.4
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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

import io, sys
from setuptools import setup
version = "2.4"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': version,
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsigo/idna-2.4/setup.py
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* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsgeo/idna-2.4/PKG-INFO

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1.978 jaxb-api 2.1

1.979 sudo 1.8.23-10.el7_9.1

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryssinger, Mike
G., Daniel Richard
Gaill, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Koperek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Niesma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chernoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
1.980 rsyslog 8.24.0 34.el7

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jar/com/google/common/collection/ForwardingNavigableMap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/CompactHashMap.java
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/TreeTraverser.java

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*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/io/MultiReader.java
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/util/concurrent/ListenableFutureTask.java
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/FluentIterable.java
*/
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/primitives/Bytes.java
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/primitives/Ints.java
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/base/Stopwatch.java
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/primitives/Chars.java
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/primitives/Shorts.java
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/primitives/Longs.java
*/
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/escape/Escaper.java
*/
opendir/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Converter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Reflection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/Floats.java

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jar/com/google/common/reflect/Reflection.java

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  jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/JdkBackedImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/IndexedImmutableSet.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/Interners.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/EnumMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/base/Function.java
jar/com/google/common/base/FinalizablePhantomReference.java
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jar/com/google/common/base/Charsets.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractFuture.java
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jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/LineReader.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Predicates.java
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 * the License.
 */
/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/CommonMatcher.java

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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/SortedMultiset.java

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  jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/InteruptibleTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/hash/LittleEndianByteArray.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/AbstractIndexedListIterator.java
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jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/JdkBackedImmutableSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/JdkBackedImmutableMultiset.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AtomicLongMap.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Count.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractRangeSet.java

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  jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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*/
/**
* Holder for web specializations of methods of {code Floats}. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/MultimapBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Utf8.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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 */

/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 */

/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 */
This method assumes that the collection size doesn't change while the method is running.

* TODO(kevinb): support concurrently modified collections?

* @param c the collection for which to return an array of elements

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  jar/com/google/common/graph/AbstractGraph.java
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  jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/MutableValueGraph.java
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  jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/GraphConnections.java
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  jar/com/google/common/graph/DirectedGraphConnections.java
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  jar/com/google/common/graph/EndpointPair.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/TopKSelector.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b>
 * Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}</b>
 */

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*/

* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Present.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheStats.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/BloomFilterStrategies.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/UnsignedInteger.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashCode.java
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  jar/com/google/common/collection/ForwardingSet.java
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  jar/com/google/common/collection/Iterables.java
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  jar/com/google/common/collection/ForwardingMultiset.java
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  jar/com/google/common/collection/SortedSetMultimap.java
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  jar/com/google/common/collection/Maps.java
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  jar/com/google/common/collection/NaturalOrdering.java
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  jar/com/google/common/collection/ForwardingQueue.java
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  jar/com/google/common/collection/AbstractMapBasedMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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1.989 diffutils 3.3 5.el7
1.989.1 Available under license :

/* diff - compare files line by line


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along with this program. If not, see <http://www.gnu.org/licenses/>. */

#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <programe.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS

proper_name ("Paul Eggert"),
proper_name ("Mike Haertel"),
proper_name ("David Hayes"),
proper_name ("Richard Stallman"),
proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{

/* Values for long options that do not have single-letter equivalents. */
enum
{
    BINARY_OPTION = CHAR_MAX + 1,
    FROM_FILE_OPTION,
    HELP_OPTION,
    HORIZON_LINES_OPTION,
    IGNORE_FILE_NAME_CASE_OPTION,
    INHIBIT_HUNK MERGE_OPTION,
    LEFT_COLUMN_OPTION,
    LINE_FORMAT_OPTION,
    NO_DEREFERENCE_OPTION,
    NO IGNORE_FILE_NAME_CASE_OPTION,
    NORMAL_OPTION,
    SDIFF MERGE ASSIST_OPTION,
    STRIP_TRAILING_CR_OPTION,
    SUPPRESS_BLANK EMPTY_OPTION,
    SUPPRESS_COMMON_LINES_OPTION,
    TABSIZE_OPTION,
    TO_FILE_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_LINE_FORMAT_OPTION,
    OLD_LINE_FORMAT_OPTION,
    NEW_LINE_FORMAT_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_GROUP_FORMAT_OPTION,
    OLD_GROUP_FORMAT_OPTION,
    NEW_GROUP_FORMAT_OPTION,
    CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[] ={
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[] ={
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};
static struct option const longopts[] =
{
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
    {"context", 2, 0, 'C'},
    {"ed", 0, 0, 'e'},
    {"exclude", 1, 0, 'x'},
    {"exclude-from", 1, 0, 'X'},
    {"expand-tabs", 0, 0, 't'},
    {"forward-ed", 0, 0, 't'},
    {"from-file", 1, 0, FROM_FILE_OPTION},
    {"help", 0, 0, HELP_OPTION},
    {"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
    {"ifdef", 1, 0, 'D'},
    {"ignore-all-space", 0, 0, 'w'},
    {"ignore-blank-lines", 0, 0, 'B'},
    {"ignore-case", 0, 0, 'i'},
    {"ignore-file-name-case", 0, 0, IGNOR_FILE_NAME_CASE_OPTION},
    {"ignore-matching-lines", 1, 0, 't'},
    {"ignore-space-change", 0, 0, 'b'},
    {"ignore-tab-expansion", 0, 0, 't'},
    {"ignore-trailing-space", 0, 0, 'z'},
    {"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
    {"initial-tab", 0, 0, 't'},
    {"label", 1, 0, 'l'},
    {"left-column", 0, 0, LEFT_COLUMN_OPTION},
    {"line-format", 1, 0, LINE_FORMAT_OPTION},
    {"minimal", 0, 0, 'd'},
    {"new-file", 0, 0, 'n'},
    {"new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION},
    {"new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION},
    {"no-dereference", 0, 0, NO_DEREFERENCE_OPTION},
    {"no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION},
    {"normal", 0, 0, NORMAL_OPTION},
    {"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
    {"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
    {"paginate", 0, 0, 'p'},
    {"rcs", 0, 0, 'r'},
    {"recursive", 0, 0, 'r'},
    {"report-identical-files", 0, 0, 's'},
    {"sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION},
    {"show-c-function", 0, 0, 'p'},
    {"show-function-line", 1, 0, 'f'},
    {"side-by-side", 0, 0, 'y'},
    {"speed-large-files", 0, 0, 'h'},
    {"starting-file", 1, 0, 's'},
    {"strip-trailing-cr", 0, 0, STRIP_TRAILING_CR_OPTION},
}
static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

    for (i = 0; i < count; i++)
        size += 1 + shell_quote_length (optionvec[i]);

    p = result = xmalloc (size);

    for (i = 0; i < count; i++)
    {
        *p++ = ' ';  
        p = shell_quote_copy (p, optionvec[i]);
    }

    *p = '\0';
    return result;
}

/* Return an option value suitable for add_exclude. */
static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    lin ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, &argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "");
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);
    function_regexp_list.buf = &function_regexp;
    ignore_regexp_list.buf = &ignore_regexp;
    re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
    excluded = new_exclude ();

    /* Decode the options. */

    while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
    {
        switch (c)
        {
            case 0:
                break;
            case '0':
                case '1':
                case '2':
                case '3':

case '4':
case '5':
case '6':
case '7':
case '8':
case '9':
    if (! ISDIGIT (prev))
        ocontext = c - '0';
    else if (LIN_MAX / 10 < ocontext
        || ((ocontext = 10 * ocontext + c - '0') < 0))
        ocontext = LIN_MAX;
    break;

case 'a':
    text = true;
    break;

case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;

case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
case 'U':
    {
        if (optarg)
            {
            numval = strtolmax (optarg, &numend, 10);
        if (*numend)
            try_help ("invalid context length "%;", optarg);
        if (LIN_MAX < numval)
            numval = LIN_MAX;
        }
        else
            numval = 3;
    }

    specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
    if (context < numval)
        context = numval;
explicit_context = true;
}
break;

case 'c':
specify_style (OUTPUT_CONTEXT);
if (context < 3)
    context = 3;
break;

case 'd':
    minimal = true;
    break;

case 'D':
specify_style (OUTPUTIFDEF);
{
    static char const C ifndef_group_formats[] =
        "%%=%c ifndef %s\n\n<#endif /* ! %s */
%%%ifdef %s\n\n#endif /* %s */
%%%ifndef %s\n\n<#else /* %s */
%%%#endif /* %s */",
    char *b = xmalloc (sizeof C ifndef_group_formats + 7 * strlen (optarg) - 14 /* 7*"%s" */ - 8 /* 5*"%%" + 3*"%c" */) + 2;
    sprintf (b, C ifndef_group_formats, 0, optarg, optarg, 0, optarg, optarg, optarg);
    for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
        specify_value (&group_format[i], b, "-D");
    b += strlen (b) + 1;
}
    break;

case 'e':
specify_style (OUTPUT_ED);
    break;

case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'f':
specify_style (OUTPUT_FORWARD_ED);
break;
case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;

case 'h':
    /* Split the files into chunks for faster processing.
       Usually does not change the result.

       This currently has no effect. */
    break;

case 'H':
    speed_large_files = true;
    break;

case 'i':
    ignore_case = true;
    break;

case 'I':
    add_regexp (&ignore_regexp_list, optarg);
    break;

case 'l':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
    #ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
    #endif
    break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;
case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[:alpha:]$_");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
        AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;
case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

    case 'x':
        add_exclude (excluded, optarg, exclude_options ());
        break;

    case 'X':
        if (add_exclude_file (add_exclude, excluded, optarg,
            exclude_options (), 'u'))
            pfatal_with_name (optarg);
        break;

    case 'y':
        specify_style (OUTPUT_SDIFF);
        break;

    case 'W':
        numval = strtoumax (optarg, &numend, 10);
        if (! (0 < numval && numval <= SIZE_MAX) || *numend)
            try_help ("invalid width '%s'", optarg);
        if (width != numval)
            { if (width)
                fatal ("conflicting width options");
                width = numval;
            }
        break;

    case BINARY_OPTION:
        #if O_BINARY
            binary = true;
            if (! isatty (STDOUT_FILENO))
                set_binary_mode (STDOUT_FILENO, O_BINARY);
        #endif
        break;

    case FROM_FILE_OPTION:
        specify_value (&from_file, optarg, "--from-file");
        break;

    case HELP_OPTION:
        usage ();
        check_stdout ();
        return EXIT_SUCCESS;
case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length '%s'", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
suppress_blank_empty = true;
break;

case SUPPRESS_COMMON_LINES_OPTION:
suppress_common_lines = true;
break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize '%s'", optarg);
    if (tabsize != numval)
        { if (tabsize)
            fatal ("conflicting tabsize options");
            tabsize = numval;
        }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
    }
    prev = c;
    }

if (output_style == OUTPUT_UNSPECIFIED)
if (show_c_function)
{
    specify_style (OUTPUT_CONTEXT);
    if (ocontext < 0)
        context = 3;
}
else
    specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
    #if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \ 
        || defined HAVE_STRUCT_STAT_ST_SPARE1)
        time_format = "%Y-%m-%d %H:%M:%S,%N %z";
    #else
        time_format = "%Y-%m-%d %H:%M:%S %z";
    #endif
}
else
{
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context)))
context = ocontext;

if (! tabsize)
    tabsize = 8;
if (! width)
    width = 130;

{ /* Maximize first the half line width, and then the gutter width, 
    according to the following constraints:

1. Two half lines plus a gutter must fit in a line. 
2. If the half line width is nonzero:
   a. The gutter width is at least GUTTER_WIDTH_MINIMUM. 
   b. If tabs are not expanded to spaces, 
      a half line plus a gutter is an integral number of tabs, 
      so that tabs in the right column line up. */}
intmax_t t = expand_tabs ? 1 : tabsize;
intmax_t w = width;
intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
   horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
   for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
   if (!line_format[i])
      line_format[i] = "%ln";
   if (!group_format[OLD])
      group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
   if (!group_format[NEW])
      group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
   if (!group_format[UNCHANGED])
      group_format[UNCHANGED] = "%=";
   if (!group_format[CHANGED])
      group_format[CHANGED] = concat (group_format[OLD],
      group_format[NEW], "");
}

no_diff_means_no_output =
(uoutput_style == OUTPUT_IFDEF ?
 (!*group_format[UNCHANGED]
 || (STREQ (group_format[UNCHANGED], "=%")
 && !*line_format[UNCHANGED]))
 : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
(brief & binary
 & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
 | (ignore_regexp_list.regexps || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
if (to_file)
  fatal("--from-file and --to-file both specified");
else
for (; optind < argc; optind++)
{
  int status = compare_files(NULL, from_file, argv[optind]);
  if (exit_status < status)
    exit_status = status;
}
else
{
  if (to_file)
    for (; optind < argc; optind++)
    {
      int status = compare_files(NULL, argv[optind], to_file);
      if (exit_status < status)
        exit_status = status;
    }
  else
  {
    if (argc - optind != 2)
      {
        if (argc - optind < 2)
          try_help("missing operand after '%s'", argv[argc - 1]);
        else
          try_help("extra operand '%s'", argv[optind + 2]);
      }
    exit_status = compare_files(NULL, argv[optind], argv[optind + 1]);
  }

  /* Print any messages that were saved up for last. */
  print_message_queue();

  check_stdout();
  exit(exit_status);
  return exit_status;
}

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp(struct regexp_list *reglist, char const *pattern)
{
  size_t patlen = strlen(pattern);

  ...
char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

if (m != 0)
  error (0, 0, "%s: %s", pattern, m);
else

  // Compile the disjunction of the regexps.
  // (If just one regexp was specified, it is already compiled.)  */
  char const *m = re_compile_pattern (reglist->regexps, reglist->len, reglist->buf);
if (m)
    error(EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
}

static void
try_help (char const *reason_msgid, char const *operand)
{
    if (reason_msgid)
        error (0, 0, _((reason_msgid)), operand);
    error(EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
    program_name);
    abort ();
}

static void
check_stdout (void)
{
    if (ferror (stdout))
        fatal ("write failed");
    else if (fclose (stdout) != 0)
        pfatal_with_name (_("standard output"));
}

static char const * const option_helpmsgid[] = {
    N_(" --normal                  output a normal diff (the default)"),
    N_("-q, --brief               report only when files differ"),
    N_("-s, --report-identical-files report when two files are the same"),
    N_("-c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
    N_("-u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context"),
    N_("-e, --ed output an ed script"),
    N_("-n, --rcs output an RCS format diff"),
    N_("-y, --side-by-side output in two columns"),
    N_("-W, --width=NUM output at most NUM (default 130) print columns"),
    N_(" --left-column output only the left column of common lines"),
    N_(" --suppress-common-lines do not output common lines"),
    ",
    N_("-p, --show-c-function show which C function each change is in"),
    N_("-F, --show-function-line=RE show the most recent line matching RE"),
    N_(" --label LABEL use LABEL instead of file name\n" " (can be repeated")",
    ",
    N_("-t, --expand-tabs expand tabs to spaces in output"),
    N_("-T, --initial-tab make tabs line up by prepending a tab"),
    N_(" --tabsize=NUM tab stops every NUM (default 8) print columns"),
    N_(" --suppress-blank-empty suppress space or tab before empty output lines"),
    N_("-l, --paginate pass output through 'pr' to paginate it"),
}
```
N_("-r, --recursive recursively compare any subdirectories found"),
N_(" --no-dereference don't follow symbolic links"),
N_("-N, --new-file treat absent files as empty"),
N_(" --unidirectional-new-file treat absent first files as empty"),
N_(" --ignore-file-name-case ignore case when comparing file names"),
N_(" --no-ignore-file-name-case consider case when comparing file names"),
N_("-x, --exclude=PAT exclude files that match PAT"),
N_("-X, --exclude-from=FILE exclude files that much any pattern in FILE"),
N_("-S, --starting-file=FILE start with FILE when comparing directories"),
N_(" --from-file=FILE1 compare FILE1 to all operands\n" " FILE1 can be a directory"),
N_(" --to-file=FILE2 compare all operands to FILE2\n" " FILE2 can be a directory"),
```

```
N_("-i, --ignore-case ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space ignore white space at line end"),
N_("-b, --ignore-space-change ignore changes in the amount of white space"),
N_("-w, --ignore-all-space ignore all white space"),
N_("-B, --ignore-blank-lines ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),
```

```
N_("-a, --text treat all files as text"),
N_(" --strip-trailing-cr strip trailing carriage return on input"),
#if O_BINARY
N_(" --binary read and write data in binary mode"),
#endif
```

```
N_("-D, --ifdef=NAME output merged file with '#ifdef NAME' diffs"),
N_(" --GTYPe-group-format=GFMT format GTYPe input groups with GFMT"),
N_(" --line-format=LFMT format all input lines with LFMT"),
N_(" --LTYPe-line-format=LFMT format LTYPe input lines with LFMT"),
N_(" These format options provide fine-grained control over the output\n" " of diff, generalizing -D/--ifdef."),
N_(" LTYPe is 'old', 'new', or 'unchanged'. GTYPe is LTYPe or 'changed'."),
N_(" GFMT (only) may contain:\n
%< lines from FILE1\n%> lines from FILE2\n%= lines common to FILE1 and FILE2\n%-][WIDTH][][PREC][\(doxX\)LETTER printf-style spec for LETTER\nLETTERs are as follows for new group, lower case for old group:\n F first line number\n L last line number\n N number of lines = L-F+1\n E F-1\n M L+1\n%(A=B?T:E) if A equals B then T else E"),
```
N_(" LFMT (only) may contain:\n %L  contents of line\n %l  contents of line, excluding any trailing newline\n %[-][WIDTH][.[PREC]][(doxX)]n  printf-style spec for input line number"),
N_(" Both GFMT and LFMT may contain:\n %  \%\n %c'C'  the single character C\n %c'\OOO'  the character with octal code OOO\n C  the character C (other characters represent themselves")
"
,
N_("-d, --minimal  try hard to find a smaller set of changes"),
N_("  --horizon-lines=NUM  keep NUM lines of the common prefix and suffix"),
N_("  --speed-large-files  assume large files and many scattered small changes"),
"
,
N_("  --help  display this help and exit"),
N_("  --version  output version information and exit"),
"
,
N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'."),
N_("If --from-file or --to-file is given, there are no restrictions on FILE(s)."),
N_("If a FILE is '-', read standard input."),
N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble."),
0
);

static void
usage (void)
{
    char const * const *p;

    printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
    printf (_("Compare FILES line by line."));
    fputs (_("\n Mandatory arguments to long options are mandatory for short options too.\n"), stdout);

    for (p = option_help_msgid;  *p;  p++)
    {
        if (!**p)
            putchar ("\n");
        else
        {
            char const *msg = *(p);
            char const *nl;
            while ((nl = strchr (msg, '\n')))
                { int msglen = nl + 1 - msg;
                    printf (_(" .%s", msglen, msg);
                }
        }
    }

    
}
msg = nl + 1;
}
printf (" %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
}
}
emit_bug_reporting_address ();
}
/* Set VAR to VALUE, reporting an OPTION error if this is a
conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
if (*var && ! STREQ (*var, value))
{
error (0, 0, _("conflicting %s option value '%s'"), option, value);
try_help (NULL, NULL);
}
*var = value;
}
/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
if (output_style != style)
{
if (output_style != OUTPUT_UNSPECIFIED)
try_help ("conflicting output style options", NULL);
output_style = style;
}
}
/* Set the last-modified time of *ST to be the current time. */
static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
gettime (&STAT_TIMESPEC (st, st_mtim));
#else
struct timespec t;
gettime (&t);
st->st_mtime = t.tv_sec;
# if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
# elif defined HAVE_STRUCT_STAT_ST_SPARE1

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st->st_spare1 = t.tv_nsec / 1000;
#endif
#endif
}

/* Compare two files (or dirs) with parent comparison PARENT
   and names NAME0 and NAME1.
   (If PARENT is null, then the first name is just NAME0, etc.)
   This is self-contained; it opens the files and closes them.

   Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
    struct comparison cmp;
    #define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file
     that exists only in one of the directories.
     If so, just print a message to that effect. */

    if (! ((name0 && name1)
          || (unidirectional_new_file && name1)
          || new_file))
        {
            char const *name = name0 ? name0 : name1;
            char const *dir = parent->file[!name0].name;

            /* See POSIX 1003.1-2001 for this format. */
            message ("Only in %s: %s\n", dir, name);

            /* Return EXIT_FAILURE so that diff_dirs will return
             EXIT_FAILURE ("some files differ"). */
            return EXIT_FAILURE;
        }

    memset (cmp.file, 0, sizeof cmp.file);
    cmp.parent = parent;
/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */
if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
    {
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
    }
else
    {
    cmp.file[0].name = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1 = file_name_concat (parent->file[1].name, name1, NULL);
    }

/* Stat the files. */

for (f = 0; f < 2; f++)
    {
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
        }
    }
}
if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
else
{
  if (S_ISREG (cmp.file[f].stat.st_mode))
  {
    off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
    if (pos < 0)
      cmp.file[f].desc = ERRNO_ENCODE (errno);
    else
      cmp.file[f].stat.st_size =
      MAX (0, cmp.file[f].stat.st_size - pos);
  }
}

/* POSIX 1003.1-2001 requires current time for stdin. */
set_mtime_to_now (&cmp.file[f].stat);
}
else if ((no_dereference_symlinks
  ? lstat (cmp.file[f].name, &cmp.file[f].stat)
  : stat (cmp.file[f].name, &cmp.file[f].stat))
!= 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
}

/* Mark files as nonexistent as needed for -N and -P, if they are
inaccessible empty regular files (the kind of files that 'patch'
creates to indicate nonexistent backups), or if they are
top-level files that do not exist but their counterparts do
exist. */
for (f = 0; f < 2; f++)
if ((new_file || (f == 0 && unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
  ? (S_ISREG (cmp.file[f].stat.st_mode)
      && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
      && cmp.file[f].stat.st_size == 0)
    : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
      || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
      && ! parent
      && (cmp.file[1 - f].desc == UNOPENED
      || cmp.file[1 - f].desc == STDIN_FILENO))))
  cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
if (cmp.file[f].desc == NONEXISTENT)
{
memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
}

for (f = 0; f < 2; f++)
{
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
    {
        errno = e;
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
    }
}

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
       use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
    = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "-"))
        fatal ("cannot compare '-' to a directory");

        if ((no_dereference_symlinks
            ? lstat (filename, &cmp.file[dir_arg].stat)
            : stat (filename, &cmp.file[dir_arg].stat))
            != 0)
        {
            perror_with_name (filename);
            status = EXIT_TROUBLE;
        }
    }

    if (status != EXIT_SUCCESS)
    {
        /* One of the files should exist but does not. */
    }
    else if (cmp.file[0].desc == NONEXISTENT
            && cmp.file[1].desc == NONEXISTENT)
    {
        /* Neither file "exists", so there's nothing to compare. */
else if ((same_files
    = (cmp.file[0].desc != NONEXISTENT
    && cmp.file[1].desc != NONEXISTENT
    && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
    && same_file_attributes (&cmp.file[0].stat,
    &cmp.file[1].stat))
    && no_diff_means_no_output)
{
    /* The two named files are actually the same physical file.
    We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
    if (output_style == OUTPUT_IFDEF)
        fatal ("-D option not supported with directories");

    /* If both are directories, compare the files in them. */

    if (parent && !recursive)
    {
        /* But don't compare dir contents one level down
         * unless -r was specified.
         * See POSIX 1003.1-2001 for this format. */
        message ("Common subdirectories: %s and %s\n",
            cmp.file[0].name, cmp.file[1].name);
    }
    else
        status = diff_dirs (&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
    && !(S_ISREG (cmp.file[0].stat.st_mode)
    || S_ISLNK (cmp.file[0].stat.st_mode))
    && (S_ISREG (cmp.file[1].stat.st_mode)
    || S_ISLNK (cmp.file[1].stat.st_mode)))
{
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
    {
        /* We have a subdirectory that exists only in one directory. */

        if ((DIR_P (0) | DIR_P (1))
            && recursive
            && (new_file
                || (unidirectional_new_file
                    && cmp.file[0].desc == NONEXISTENT)))
            status = diff_dirs (&cmp, compare_files);
    else
char const *dir;

/* PARENT must be non-NULL here. */
assert (parent);

dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

/* See POSIX 1003.1-2001 for this format. */
message ("Only in %s: %s\n", dir, name0);

status = EXIT_FAILURE;
}
}
else
{

/* We have two files that are not to be compared. */

/* See POSIX 1003.1-2001 for this format. */
message5 ("File %s is a %s while file %s is a %s\n", 
file_label[0] ? file_label[0] : cmp.file[0].name, 
file_type (&cmp.file[0].stat),
file_type (&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}
}
else if (S_ISLNK (cmp.file[0].stat.st_mode) 
|| S_ISLNK (cmp.file[1].stat.st_mode))
{
/* We get here only if we use lstat(), not stat(). */
assert (no_dereference_symlinks);

if (S_ISLNK (cmp.file[0].stat.st_mode) 
&& S_ISLNK (cmp.file[1].stat.st_mode))
{
/* Compare the values of the symbolic links. */
char *link_value[2] = { NULL, NULL };

for (f = 0; f < 2; f++)
{
    link_value[f] = xreadlink (cmp.file[f].name);
    if (link_value[f] == NULL)
    {
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
        break;
    }
if (status == EXIT_SUCCESS)
{
    if (! STREQ (link_value[0], link_value[1]))
    {
        message ("Symbolic links %s and %s differ\n",
                 cmp.file[0].name, cmp.file[1].name);
        /* This is a difference. */
        status = EXIT_FAILURE;
    }
}
for (f = 0; f < 2; f++)
    free (link_value[f]);
else
{
    /* We have two files that are not to be compared, because
     one of them is a symbolic link and the other one is not. */
    message5 ("File %s is a %s while file %s is a %s\n",
              file_label[0] ? file_label[0] : cmp.file[0].name,
              file_type (&cmp.file[0].stat),
              file_type (&cmp.file[1].stat));
    /* This is a difference. */
    status = EXIT_FAILURE;
}
else if (files_can_be_treated_as_binary
         && S_ISREG (cmp.file[0].stat.st_mode)
         && S_ISREG (cmp.file[1].stat.st_mode)
         && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
    {
        message ("Files %s and %s differ\n",
                 file_label[0] ? file_label[0] : cmp.file[0].name,
        status = EXIT_FAILURE;
    }
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);
if (cmp.file[0].desc == UNOPENED)
if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
if (cmp.file[1].desc == UNOPENED)
{
    if (same_files)
        cmp.file[1].desc = cmp.file[0].desc;
    else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }
}
/* Compare the files, if no error was found. */

if (status == EXIT_SUCCESS)
status = diff_2_files (&cmp);

/* Close the file descriptors. */

if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
    && close (cmp.file[1].desc) != 0)
{
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
}
/* Now the comparison has been done, if no error prevented it,
    and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
message ("Files %s and %s are identical
",
file_label[0] ? file_label[0] : cmp.file[0].name,
    } else
{  
    /* Flush stdout so that the user sees differences immediately.  
    This can hurt performance, unfortunately. */  
    if (fflush (stdout) != 0)  
        pfatal_with_name (_("standard output"));  
}  

free (free0);  
free (free1);  

return status;  
}

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customarily used for software interchange; or,

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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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   <signature of Ty Coon>, 1 April 1989
   Ty Coon, President of Vice
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling.
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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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   This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

   However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Library will not necessarily be able to recompile the application to use the modified definitions.

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.994 rng-tools 6.3.1 3.el7

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1.995 flying-saucer-pdf 9.1.20

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1.996 zlib 1.2.8

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jloup@gzip.org            madler@alumni.caltech.edu

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*/

1.997 kerberos 1.15.1 46.el7

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  cmd/krb5/kadmin/server/ipropd_svc.c
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  cmd/krb5/slave/kpropd_rpc.c
  lib/gss_mechs/mech_krb5/et/kdb5_err.c
  lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
  lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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The of the start-stop-daemon

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* in C (faster - it is executed many times during system startup).
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1.1014 jetty-security 9.4.31.v20200723

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.1015 linux-kernel 3.0.31

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static inline int license_is_gpl_compatible(const char *license) {
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}

/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
   * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
   * Fix is simple: make large buffers large enough to hold entire
   * SDU, and leave <small_buffer_data> bytes empty at the start. Then
   * copy small buffer contents to head of large buffer.
   * Trick is to avoid fragmenting Linux, due to need for a lot of large
   * buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
combined, allow nicstar_free_rx_skb to be called to
recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
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<text>
This is the license.
</text>
</license>
<plugins/>
</plugins>

/*
 * $Revision: 1.2 $
 * $Date: 2003/04/06 20:37:31 $
 *
 * ==============================================================
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JUnit

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toStringjava/security/Permissionjava/io/Serializable
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1.1034 quartz 2.3.2

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> Is it allowed to use the code there, or should I accomodate the testsuite
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> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net>       ID: 0xA5F059F2
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### 1.1044 spring-framework 4.3.14.RELEASE

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cfff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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  */opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
  */opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/AspectComponentDefinition.java
  */opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
  */opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
  */opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/aspectj/AnnotationAwareAspectJAutoProxyCreator.java
  */opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
  */opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
  */opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/interceptor/Perf...
jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractExpressionPointcut.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/ExpressionPointcut.java
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* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/ClassFilters.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/MethodMatchers.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/ComposablePointcut.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java

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* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/ClassFilters.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/MethodMatchers.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/ComposablePointcut.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
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* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/aspectj/AspectJAopUtils.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceAdapter.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/DynamicIntroductionAdvice.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/AdviceEntry.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/framework/adapter/LazyInitTargetSource.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/AdvisorEntry.java
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  jar/org/springframework/aop/interceptor/DebugInterceptor.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/framework/adapter/AfterReturningAdviceAdapter.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/framework/adapter/ConcurrencyThrottleInterceptor.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
  jar/org/springframework/aop/framework/adapter/Pointcut.java
1.1054 strace 1.0

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Version 2.1, February 1999

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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define COMPAT_POLL_H_  
#define COMPAT_POLL_H_

typedef struct pollfd {
int fd;
short events;
short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLErr 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNorm 0x0040
#define POLLNRMPOLLRDNorm
#define POLLWRNorm POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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--- end of FTL.TXT ---
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1.1073 kmod 20 28.el7

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* /opt/cola/permits/1111969033_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/tftp.1.in

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* /opt/cola/permits/1111969033_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/remap.h
* /opt/cola/permits/1111969033_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/recvfrom.c
* /opt/cola/permits/1111969033_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/remap.c
* /opt/cola/permits/1111969033_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/tftpd.h
* /opt/cola/permits/1111969033_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/misc.c

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*@(#)tftpsubs.h 8.1 (Berkeley) 6/6/93
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enhancements to mutexes;
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIC
## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao
## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)

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$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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Version 2, June 1991

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The security token profiles currently supported are:

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- Web Services Security: SAML Token Profile 1.1
- Web Services Security X.509 Certificate Token Profile 1.1
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* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/ValidateTargetBuilder.java
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jar/org/opensaml/ws/security/provider/StaticSecurityPolicyResolver.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wspolicy/impl/AppliesToUnmarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wsaaddressing/impl/AddressImpl.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/TokenTypeUnmarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/impl/BinarySecurityTokenBuilder.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/impl/ExpiresMarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/impl/ExpirationImpl.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/impl/ReferenceMarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/OnBehalfOfMarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/Participants.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/Iteration.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/soap/impl/MustUnderstandBearing.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/impl/ExpiresImpl.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/ParticipantsBuilder.java
* /opt/cola/permits/1001075398_1611179403.65/openws-1-5-5-sources-jar/org/opensaml/ws/soap/impl/DetailMarshaller.java

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* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/AllowPostdatingUnmarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/security/provider/HTTPRule.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/soap/common/SOAPHandler.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wspolicy/impl/OperatorContentTypeUnmarshallerr.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/ParticipantTypeMarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/PolicyAttachmentUnmarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/ClaimsMarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/KeyTypeBuilder.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/CancelTargetBuilder.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/SignChallengeTypeMarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/SignatureAlgorithmImpl.java
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* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/schema/oasis-200401-wss-wssecurity-secext-1.0.xsd
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/schema/oasis-200401-wss-wssecurity-utility-1.0.xsd
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*/
/**
* Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
* @param messageContext the current message context
*
* @return true if the encoder provides end-to-end message confidentiality, false if not
* @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
* ability to provide message confidentiality.
*/

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* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/message/encoder/MessageEncoder.java
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*/
/**
* Gets whether the transport represents a confidential connection (e.g. an SSL connection).
* @return whether the transport represents a confidential connection
*/
/**
* Sets whether the transport represents a confidential connection.
* @param isConfidential whether the transport represents a confidential connection
*/

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstart() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the
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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
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c) You must cause the whole of the work to be licensed at no
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d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Martin Richards
23 February 2007

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  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
  <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
  <!-- Test unsupported outside of windows -->
  <IlrtTestKind>BuildOnly</IlrtTestKind>
  <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
  <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
</PropertyGroup>

<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
</ItemGroup>

<ItemGroup>
  <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
</ItemGroup>

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Version 2, June 1991

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 */
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; 
* see init_nicstar() for PHY initialization to change this. This driver 
* expects the Linux ATM stack to support scatter-gather lists 
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push. 
* 
* Implementing minimal-copy of received data: 
* IDT always receives data into a small buffer, then large buffers 
* as needed. This means that data must always be copied to create 
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP) 
* Fix is simple: make large buffers large enough to hold entire 
* SDU, and leave <small_buffer_data> bytes empty at the start. Then 
* copy small buffer contents to head of large buffer. 
* Trick is to avoid fragmenting Linux, due to need for a lot of large 
* buffers. This is done by 2 things: 
* 1) skb->destructor / skb->atm.recycle_buffer 
* combined, allow nicstar_free_rx_skb to be called to 
* recycle large data buffers 
* 2) skb_clone of received buffers 
* See nicstar_free_rx_skb and linearize_buffer for implementation 
* details.
* 
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* 
* M. Welsh, 6 July 1996
* 
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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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1.1119 d-conf 0.28.0 4.el7

1.1120 tdb 1.42.9

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
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lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
and the initial implementation of incremental propagation, including
the following new or changed files:

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproblog.c

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/* mga_drm.h -- Public header for the Matrox g200/g400 driver -*. linux-c -*/
* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com
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/* dristat.c --
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
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/* xf86drmHash.c -- Small hash table support for integer -> integer mapping
* Created: Sun Apr 18 09:35:45 1999 by faith@precisioninsight.com
* 
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

* DESCRIPTION

* This file contains a straightforward implementation of a fixed-sized
  * hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
  * collision resolution. There are two potentially interesting things
  * about this implementation:

* 1) The table is power-of-two sized. Prime sized tables are more
  * traditional, but do not have a significant advantage over power-of-two
  * sized table, especially when double hashing is not used for collision
  * resolution.

* 2) The hash computation uses a table of random integers [Hanson97,
  * pp. 39-41].

* FUTURE ENHANCEMENTS

* With a table size of 512, the current implementation is sufficient for a
  * few hundred keys. Since this is well above the expected size of the
  * tables for which this implementation was designed, the implementation of
  * dynamic hash tables was postponed until the need arises. A common (and
  * naive) approach to dynamic hash table implementation simply creates a
  * new hash table when necessary, rehashes all the data into the new table,
  * and destroys the old table. The approach in [Larson88] is superior in
  * two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
* REFERENCES
*
* [Hanson97] David R. Hanson. C Interfaces and Implementations:
* Techniques for Creating Reusable Software. Reading, Massachusetts:
* Addison-Wesley, 1997.
*
* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:
*
* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April
* 1988, pp. 446-457.
*
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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-odN83yGs/libdrm-2.4.23/tests/getversion.c
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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-odN83yGs/libdrm-2.4.23/tests/drmtest.h
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-odN83yGs/libdrm-2.4.23/tests/drmtest.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-odN83yGs/libdrm-2.4.23/tests/updatedraw.c

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel_bufmgr_priv.h
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/gem_basic.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/gem_readwrite.c
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel_bufmgr.h

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/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation

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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
This file contains a simple, straightforward implementation of the Park
& Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
multiplicative linear congruential generator (MLCG) with a period of
2^31-1.
*
* This implementation is intended to provide a reliable, portable PRNG
that is suitable for testing a hash table implementation and for
implementing skip lists.
*
* FUTURE ENHANCEMENTS
*
* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated. [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.
*
* If PRNGs are used for simulation, the period of the current
* implementation may be too short. [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M. [LE90 and Sch92] also provide information on
* long-period PRNGs.
*
* REFERENCES
*
* [Knuth81] Donald E. Knuth. The Art of Computer Programming. Volume 2:
*
* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
* Generators". CACM 31(6), June 1988, pp. 742-774.
*
* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10,
*
* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
* Good Ones are Hard to Find". CACM 31(10), October 1988, pp. 1192-1201.
*
* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence Generator for 32-Bit
* CPUs". Dr. Dobb's Journal 17(2), February 1992, pp. 34, 37-38, 40.
*
* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer. In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
* Number Generators". CACM 36(7), July 1993, pp. 105-110.
*
* */

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* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-
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/* drmstat.c -- DRM device status and testing program
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* * *

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* Kevin E. Martin <martin@valinux.com>
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AC_PREREQ(2.60)
AC_INIT([libdrm], 2.4.23, [dri-devel@lists.sourceforge.net], libdrm)
AC_USE_SYSTEM_EXTENSIONS
AC_CONFIG_SRCDIR([Makefile.am])
AM_INIT_AUTOMAKE([dist-bzip2])

AM_CONFIG_HEADER([config.h])

AC_DISABLE_STATIC
AC_PROG_LIBTOOL
AC_PROG_CC

AC_HEADER_STDC
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA

# Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs)
AC_SUBST(PTHREADSTUBS_CFLAGS)
AC_SUBST(PTHREADSTUBS_LIBS)

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
AC_ARG_ENABLE(udev,
    AS_HELP_STRING([--enable-udev],
    [Enable support for using udev instead of mknod (default: disabled)],
    [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE(libkms,
    AS_HELP_STRING([--disable-libkms],
    [Disable KMS mm abstraction library (default: auto)],
    [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE(intel,
    AS_HELP_STRING([--disable-intel],
    [Enable support for intel's KMS API (default: auto)],
    [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE(radeon,
    AS_HELP_STRING([--disable-radeon],
    [Enable support for radeon's KMS API (default: auto)],
    [RADEON=$enableval], [RADEON=auto])

AC_ARG_ENABLE(vmwgfx-experimental-api,
    AS_HELP_STRING([--enable-vmwgfx-experimental-api],
    [Install vmwgfx's experimental kernel API header (default: disabled)],
    [VMWGFX=$enableval], [VMWGFX=no])

AC_ARG_ENABLE(nouveauplus-experimental-api,
    AS_HELP_STRING([--enable-nouveauplus-experimental-api],
    [Enable support for nouveau's experimental API (default: disabled)],
    [NOUVEAUPlus=$enableval], [NOUVEAUPlus=no])

-dnl ===========================================================================
dnl check compiler flags
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [AC_MSG_CHECKING([whether $CC supports $1])

libdrm_save_CFLAGS="$SCFLAGS"
CFLAGS="$SCFLAGS $1"

AC_COMPILE_IFELSE([ ], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
CFLAGS="$libdrm_save_CFLAGS"

if test "x$libdrm_cc_flag" = "xyes"; then
  ifelse($2), , :], [$2])
else
  ifelse($3), , :], [$3])
fi
AC_MSG_RESULT([${libdrm_cc_flag}])
]

# We use clock_gettime to check for timeouts in drmWaitVBlank

AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
[AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
[AC_MSG_ERROR([Couldn't find clock_gettime])])])
AC_SUBST([CLOCK_LIB])

# Use lots of warning flags with with gcc and compatible compilers

# Note: if you change the following variable, the cache is automatically
# skipped and all flags rechecked. So there's no need to do anything
# else. If for any reason you need to force a recheck, just change
# MAYBE_WARN in an ignorable way (like adding whitespace)

MAYBE_WARN="-Wall -Wextra \
-Wsign-compare -Werror-implicit-function-declaration \
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \
-Wpacked -Wswitch-enum -Wmissing-format-attribute \
-Wstrict-aliasing=2 -Winit-self -Wunsafe-loop-optimizations \
-Wdeclaration-after-statement -Wold-style-definition \
-Wno-missing-field-initializers -Wno-unused-parameter \
-Wno-attributes -Wno-long-long -Winline"

# invalidate cached value if MAYBE_WARN has changed
if test "x${libdrm_cv_warn_maybe}" != "x${MAYBE_WARN}"; then
  unset libdrm_cv_warn_cflags
fi
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [
  echo
  WARN_CFLAGS=""}
Some warning options are not supported by all versions of gcc, so test all desired options against the current compiler.

Note that there are some order dependencies here. Specifically, an option that disables a warning will have no net effect if a later option then enables that warnings, (perhaps implicitly). So we put some grouped options (-Wall and -Wextra) up front and the -Wno options last.

for $W in $MAYBE_WARN; do
    LIBDRM_CC_TRY_FLAG($W, WARN_CFLAGS="$WARN_CFLAGS $W")
done

libdrm_cv_warn_cflags=$WARN_CFLAGS
libdrm_cv_warn_maybe=$MAYBE_WARN

AC_MSG_CHECKING([which warning flags were supported])
WARN_CFLAGS="$libdrm_cv_warn_cflags"

if test "x$UDEV" = xyes; then
    AC_DEFINE(UDEV, 1, [Have UDEV support])
fi

AC_CANONICAL_HOST
if test "x$LIBKMS" = xauto ; then
case $host_os in
    linux*) LIBKMS="yes" ;;
    *) LIBKMS="no" ;;
esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "x$LIBKMS" = xyes])

AM_CONDITIONAL(HAVE_VMWGFX, [test "x$VMWGFX" = xyes])
if test "x$VMWGFX" = xyes; then
    AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
fi

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" = xyes])
if test "x$NOUVEAU" = xyes; then
    AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
fi

PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
if test "x$HAVE_CAIRO" = xyes; then
AC_DEFINE(HAVE_CAIRO, 1, [Have cairo support])
fi

AM_CONDITIONAL(HAVE_CAIRO, [test "$HAVE_CAIRO" = yyes])

# For enumerating devices in test case
PKG_CHECK_MODULES(LIBUDEV, libudev, [HAVE_LIBUDEV=yes], [HAVE_LIBUDEV=no])
if test "$HAVE_LIBUDEV" = yyes; then
  AC_DEFINE(HAVE_LIBUDEV, 1, [Have libudev support])
fi
AM_CONDITIONAL(HAVE_LIBUDEV, [test "$HAVE_LIBUDEV" = yyes])

if test "xSINTEL" != "xno" -o "x$RADEON" != "xno"; then
  # Check for atomic intrinsics
  AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives, 
    drm_cv_atomic_primitives="none"
  )
  AC_TRY_LINK([ 
    int atomic_add(int i) { return __sync_fetch_and_add (&i, 1); } 
    int atomic_cmpxchg(int i, int j, int k) { return __sync_val_compare_and_swap (&i, j, k); } 
    ], [], 
    drm_cv_atomic_primitives="Intel"
  )

  if test "$drm_cv_atomic_primitives" = "xnone"; then
    AC_CHECK_HEADER([atomic_ops.h], drm_cv_atomic_primitives="libatomic-ops")
  fi

  # atomic functions defined in <atomic.h> & libc on Solaris
  if test "$drm_cv_atomic_primitives" = "xnone"; then
    AC_CHECK_FUNC([atomic_cas_uint], 
      drm_cv_atomic_primitives="Solaris")
  fi

  }
}
if test "$drm_cv_atomic_primitives" = xIntel; then
  AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1, 
    [Enable if your compiler supports the Intel __sync_* atomic primitives])
fi
if test "$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
  AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
fi

if test "$drm_cv_atomic_primitives" = "xnone"; then
  if test "xSINTEL" != "xauto"; then
    if test "xSINTEL" != "xno"; then
      AC_MSG_ERROR([libdrm_intel depends upon atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
disable support for Intel GPUs by passing --disable-intel to ./configure])
    fi
  else
    AC_MSG_WARN([Disabling libdrm_intel. It depends on atomic operations, which were not found
    for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
    INTEL=no
    fi
  if test "x$RADEON" != "xauto"; then
    if test "x$RADEON" != "xno"; then
      AC_MSG_ERROR([libdrm_radeon depends upon atomic operations, which were not found for your
      compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
      disable support for Radeon support by passing --disable-radeon to ./configure])
      fi
    else
      AC_MSG_WARN([Disabling libdrm_radeon. It depends on atomic operations, which were not found for
      your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
      RADEON=no
      fi
    else
      if test "x$INTEL" != "xno"; then
        INTEL=yes
        fi
      if test "x$RADEON" != "xno"; then
        RADEON=yes
        fi
      fi
  fi

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" != "xno"])
AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" != "xno"])

AC_ARG_WITH([kernel-source],
    [AS_HELP_STRING([--with-kernel-source],
        [specify path to linux kernel source]),
        [kernel_source="$with_kernel_source"])
AC_SUBST(kernel_source)

AC_SUBST(WARN_CFLAGS)
AC_OUTPUT({
  Makefile
  libkms/Makefile
  libkms/libkms.pc
  intel/Makefile
  intel/libdrm_intel.pc
  radeon/Makefile
  radeon/libdrm_radeon.pc
  nouveau/Makefile
  ...
nouveau/libdrm_nouveau.pc
tests/Makefile
tests/modeprint/Makefile
tests/modetest/Makefile
tests/kmstest/Makefile
tests/vbtest/Makefile
include/Makefile
include/drm/Makefile
libdrm.pc])

    echo ""
    echo "$PACKAGE_STRING will be compiled with:"
    echo ""
    echo "  libkms $LIBKMS"
    echo "  Intel API $INTEL"
    echo "  vmwgfx API $VMWGFX"
    echo "  Radeon API $RADEON"
    echo "  Nouveau API $NOUVEAU"
    echo ""

    Found in path(s):
    * /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/configure.ac
    No license file was found, but licenses were detected in source scan.

    /* xf86drmSL.c -- Skip list support
    * Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com
    *
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

* DESCRIPTION
* This file contains a straightforward skip list implementation.

* FUTURE ENHANCEMENTS

* REFERENCES

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/xf86drmSL.c

---

1.1129 openjdk 11.0.7

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### c-libutl 20160225

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src/bDF/bDF.h
src/bDF/bDFdrivr.c
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src/gZIp/InfBlock.c
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# This file contains a list of people who've made non-trivial
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* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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**1.1136 json-glib 1.4.2 2.el7**

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 * Date: 5/15/2008
* @projectDescription Advanced and extensible data dumping for Javascript.
* @version 1.0.0
* @author Ariel Flesler
* @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
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/* Javascript Diff Algorithm
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*
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*
* More Info:
* http://ejohn.org/projects/javascript-diff-algorithm/
* Usage: QUnit.diff(expected, actual)
* QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the quick <del>brown </del> fox <del>jumped </del><ins>jumps </ins> over"
*/

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The primary ANTLR guy:

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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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48. [52] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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1.1156 lvm2 2.02.180 8.el7

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------------

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

    http://www.ijs.si/software/snprintf/ .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at


    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

    src/devices/xditview/DESC.in
    src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
    src/devices/xditview/DviP.h
    src/devices/xditview/FontMap
    src/devices/xditview/GXditview.ad
    src/devices/xditview/Menu.h
    src/devices/xditview/ad2c
    src/devices/xditview/device.c
    src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meref.me

Hyphenation Patterns
---------------------
The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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```
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@ ispell-local-pdict: "ispell-dict"
@ End:
```

AUTHOR
-------
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### 1.1163 attrs 19.3.0

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### 1.1164 apache-mime4j-core 0.7.2

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1.1175 scannotation 1.0.2

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* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Deflate.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Adler32.java
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* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/StaticTree.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/InfCodes.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Tree.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/ZStreamException.java

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Dean Elsner wrote the original gas for vax. [more details?]
Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola’s
opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't
intentionally leaving anyone out.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Preamble

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To protect your rights, we need to make restrictions that forbid
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
courage the widest possible use of a certain library, so that it becomes
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allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
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facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
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1.1182 libsamplerate 0.1.7

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<meta name="Author" content="Erik de Castro Lopo (erikd AT mega-nerd DOT com)">
</head>
<body>

</body>
</html>
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<META NAME="Keywords" CONTENT="libsamplerate sound resample audio dsp Linux">
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</head>

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<a href="quality.html">Quality</a><br>
<a href="api.html">API</a><br>
<a href="bugs.html">Bug Reporting</a><br>
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<a href="lists.html">Mailing Lists</a><br>
<a href="ChangeLog">ChangeLog</a><br>
<br>
<div class="block">
author :<br>erik de castro lopo
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1.1186 curl 7.54.1

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* https://github.com/eclipse-ee4j/jws-api
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IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
 libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology. If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/Graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsr9c.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.
Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijk.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJK therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the
name "libjpeg" which is misleading because they don't have the features and
are incompatible with formats supported by actual IJG libjpeg distributions.
One of those fakes is released by members of the ISO committee and just uses
the name of libjpeg for misdirection of people, similar to the abuse of the
name JPEG as described above, while having nothing in common with actual IJG
libjpeg distributions and containing mathematically incorrect code.
The other one claims to be a "derivative" or "fork" of the original libjpeg,
but violates the license conditions as described under LEGAL ISSUES above
and violates basic C programming properties.
We have no sympathy for the release of misleading, incorrect and illegal
distributions derived from obsolete code bases.
Don't use an obsolete code base!

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A partial list of foreclosed institutions and corporations ("Hall of Shame")
is currently prepared and will be published later.

TO DO
=====  

Version 9 is the second release of a new generation JPEG standard
to overcome the limitations of the original JPEG specification,
and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
1.1197 libdvdread 5.0.3 3.el7

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The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1465646
Upstream Status: iproute2.git commit 26111ab1dba82

commit 26111ab1dba820421ccaf283ac097a79b95023a2
Author: Phil Sutter <phil@nw1.cc>
Date:   Mon Oct 2 13:46:35 2017 +0200

ip{6, }tunnel: Avoid copying user-supplied interface name around

In both files' parse_args() functions as well as in iptunnel's do_prl() and do_6rd() functions, a user-supplied 'dev' parameter is uselessly copied into a temporary buffer before passing it to ll_name_to_index() or copying into a struct ifreq. Avoid this by just caching the argv pointer value until the later lookup/strcpy.

Signed-off-by: Phil Sutter <phil@nw1.cc>

---
ip/ip6tunnel.c |  6 +++---
ip/iptunnel.c  | 22 +++++++++-------------
2 files changed, 12 insertions(+), 16 deletions(-)
diff --git a/ip/ip6tunnel.c b/ip/ip6tunnel.c
index b4a7def144226..c12d700e74189 100644
--- a/ip/ip6tunnel.c
+++ b/ip/ip6tunnel.c
@@ -136,7 +136,7 @@ static void print_tunnel(struct ip6_tnl_parm2 *p)
 static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p) {
  int count = 0;
-  char medium[IFNAMSIZ] = { ];
+  const char *medium = NULL;

  while (argc > 0) {
   if (strcmp(*argv, "mode") == 0) {
@@ -180,7 +180,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
memcpy(&p->laddr, &laddr.data, sizeof(p->laddr));
} else if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
-ngroupcopy(medium, *argv, IFNAMSIZ - 1);
+medium = *argv;
} else if (strcmp(*argv, "encaplimit") == 0) {
    NEXT_ARG();
    if (strcmp(*argv, "none") == 0) {
@@ -285,7 +285,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
count++;
    argc--; argv++;
}
-if (medium[0]) {
+if (medium) {
    p->link = ll_name_to_index(medium);
    if (p->link == 0) {
        fprintf(stderr, "Cannot find device \"%s\"\n", medium);
    diff --git a/ip/iptunnel.c b/ip/iptunnel.c
index 105d0f5576f1a..0acfd0793d3cd 100644
--- a/ip/iptunnel.c
+++ b/ip/iptunnel.c
@@ -60,7 +60,7 @@ static void set_tunnel_proto(struct ip_tunnel_parm *p, int proto)
static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
{
    int count = 0;
    -char medium[IFNAMSIZ] = {};
+const char *medium = NULL;
    int isatap = 0;
    memset(p, 0, sizeof(*p));
@@ -139,7 +139,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
p->iph.saddr = htonl(INADDR_ANY);
} else if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
-ngroupcpy(medium, *argv, IFNAMSIZ - 1);
+medium = *argv;
} else if (strcmp(*argv, "ttl") == 0 ||
    strcmp(*argv, "hoplimit") == 0 ||
    strcmp(*argv, "hlim") == 0) {
@@ -216,7 +216,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
}
}

-if (medium[0]) {
+if (medium) {
    p->link = ll_name_to_index(medium);
    if (p->link == 0) {
fprintf(stderr, "Cannot find device \"%s\"\n", medium);
@@ -465,9 +465,8 @@ static int do_prl(int argc, char **argv)
{
  struct ip_tunnel_prl p = {};
  int count = 0;
-  int devname = 0;
  int cmd = 0;
-  char medium[IFNAMSIZ] = {};
+  const char *medium = NULL;
  +const char *medium = NULL;

  while (argc > 0) {
    if (strcmp(*argv, "prl-default") == 0) {
@@ -488,8 +487,7 @@ static int do_prl(int argc, char **argv)
      count++;
  } else if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
    -strncpy(medium, *argv, IFNAMSIZ-1);
    -devname++;
+    medium = *argv;
  } else {
    fprintf(stderr,
    "Invalid PRL parameter \"%s\"\n", *argv);
@@ -502,7 +500,7 @@ static int do_prl(int argc, char **argv)
  }
  argc--; argv++;
}
-if (devname == 0) {
+if (!medium) {
    fprintf(stderr, "Must specify device\n");
    exit(-1);
  }
@@ -513,9 +511,8 @@ static int do_6rd(int argc, char **argv)
 static int do_6rd(int argc, char **argv)
{
  struct ip_tunnel_6rd ip6rd = {};
@@ -537,8 +534,7 @@ static int do_6rd(int argc, char **argv)
    cmd = SIOCDEL6RD;
  } else if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
    -strncpy(medium, *argv, IFNAMSIZ-1);
    -devname++;
medium = *argv;
} else {
    fprintf(stderr, "Invalid 6RD parameter \"%s\n\n", *argv);
    @ @ -546.7 +542.7 @ @ static int do_6rd(int argc, char **argv)
} argc--; argv++;

if (devname == 0) {
    if (!medium) {
        fprintf(stderr, "Must specify device\n");
        exit(-1);
    }
    --
    2.20.1

1.1223 javax-annotation-api 1.3.2
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Found in path(s):
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/StuckThreadDetectionHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/util/LegacyCookieSupport.java

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 */
/**
 * An extension to [@link AbstractConfidentialityHandler] that uses the Host header from the incoming message
 * and specifies the confidential address by just switching the port.
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */

Found in path(s):
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/security/handlers/SinglePortConfidentialityHandler.java

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Encodes and decodes to and from Base64 notation.


Example:

```java
String encoded = Base64.encode( myByteArray );
byte[] myByteArray = Base64.decode( encoded );
```

The `options` parameter, which appears in a few places, is used to pass several pieces of information to the encoder.

In the "higher level" methods such as `encodeBytes( bytes, options )` the `options` parameter can be used to indicate such things:

- as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered dialects.

Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations should not add line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines by default.

The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
```

to compress the data before encoding it and then making the output have newline characters.

Also...

```java
String encoded = Base64.encodeBytes( crazyString.getBytes() );
```
Change Log:

- **v2.3.7** - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.

- **v2.3.6** - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.

- **v2.3.5** - Fixed bug in `@link #encodeFromFile` where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.

- **v2.3.4** - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the `@link #decodeToObject(String, int, ClassLoader)` method.

- **v2.3.3** - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException explicitly inline.

- **v2.3.2** - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the `@link #encodeBytesToBytes(byte[])` family of methods (and not using the gzip options which uses a different mechanism with streams and stuff).

- **v2.3.1** - Added `@link #encodeBytesToBytes(byte[], int, int, int)` and some similar helper methods to be more efficient with memory by not returning a String but just a byte array.

- **v2.3** - This is not a drop-in replacement! This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or something similar. Here are some changes that may affect you:
* Does not break lines, by default. This is to keep in compliance with RFC3548.
* Throws exceptions instead of returning null values. Because some operations (especially those that may permit the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some discussion and thought, I've changed the behavior of the methods to throw java.io.IOExceptions rather than return null if ever there's an error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been done this way to begin with.
* Removed all references to System.out, System.err, and the like. Shame on me. All I can say is sorry they were ever there.
* Throws NullPointerExceptions and IllegalArgumentExceptions as needed such as when passed arrays are null or offsets are invalid.
* Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before for people who were thorough in their own projects and then had gobs of javadoc warnings on this file.
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~<40 bytes).
* v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
* The default is RFC3548 format.
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548. http://www.faqs.org/rfcs/rfc3548.html
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html
* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally
things are
* cleaner. You’ll probably have to change some method calls that you were making to support the new options
format (  
* `<tt>`int`<tt>`s that you "OR" together).</li>
* `<li>`v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using `<tt>`decode(String s, boolean gzipCompressed)`<tt>`.
* Added the ability to “suspend” encoding in the Output Stream so you can turn on and off the encoding if you need to embed
* base64 data in an otherwise "normal" stream (like an XML file).</li>
* `<li>`v1.5 - Output stream passes on flush() command but doesn’t do anything itself. This helps when using GZIP streams. Added
* the ability to GZip-compress objects before encoding them.</li>
* `<li>`v1.4 - Added helper methods to read/write files.</li>
* `<li>`v1.3.6 - Fixed OutputStream.flush() so that ‘position’ is reset.</li>
* `<li>`v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not
* completely full, was not returned.</li>
* `<li>`v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* `<li>`v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>

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* with plenty of well-wishing instead! Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.

* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/websockets/core/protocol/version07/Base64.java
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  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/ImmediatePooled.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/ImmediatePooled.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/websockets/core/WebSocketFrame.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/ResponseRateLimitingHandler.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/security/idm/DigestAlgorithm.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/protocol/ajp/AjpServerResponseConduit.java
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  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/proxy/mod_cluster/NodeStatus.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/ResponseCodeHandler.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/session/PathParameterSessionConfig.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/security/api/AuthenticationMode.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/websockets/core/protocol/version13/WebSocket13Channel.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/handlers/ResponseCodeHandler.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-util/ConduitFactory.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/session/PathParameterSessionConfig.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/security/api/AuthenticationMode.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-websockets/core/protocol/version07/WebSocket07CloseFrameSinkChannel.java
  */opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/predicate/MaxContentSizePredicate.java
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/server/AbstractServerConnection.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/server/handlers/ProxyPeerAddressHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/server/builders/PredicatedHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/server/protocol/http/ALPNBannedCiphers.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/protocols/http2/Http2StreamSinkChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/server/handlers/resource/ResourceHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/protocols/http2/Http2Setting.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/server/ListenerRegistry.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/util/Certificates.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/conduits/DeflatingStreamSinkConduit.java
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/attribute/HostAndPortAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-websockets/core/protocol/version07/WebSocket07BinaryFrameSourceChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/protocols/http2/Http2PingStreamSourceChannel.java
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow/server/handlers/cache/ResponseCache.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-protocols/ssl/ALPNHackClientByteArrayOutputStream.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/conduits/EmptyStreamSourceConduit.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/util/Sessions.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-server/protocol/http2/Http2ServerConnection.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/server/session/SessionListeners.java
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jar/io/undertow/util/ObjectPool.java
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* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/server/handlers/resource/ResourceSupplier.java
* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/protocols/http2/AbstractHttp2StreamSourceChannel.java
* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/attribute/LocalPortAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/client/http/HttpClientProvider.java
* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/server/XnioByteBufferPool.java
* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/attribute/TransportProtocolAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/websockets/core/WebSocketChannel.java
* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/websockets/core/protocol/version07/WebSocket07CloseFrameSourceChannel.java
* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/websockets/client/WebSocketClientNegotiation.java
* /opt/cola/permits/1109701251_1606393222.61/io/undertow-core-2-1-3-final-sources.jar/io/undertow/server/handlers/cache/CacheHandler.java
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jar/io/undertow/util/PathMatcher.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/util/MimeMappings.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/RedirectHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/HttpContinueReadHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/util/PathMatcher.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/RedirectHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/HttpContinueReadHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/util/MimeMappings.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/RedirectHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/HttpContinueReadHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/util/PathTemplateMatcher.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/predicate/PathTemplatePredicate.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/accesslog/AccessLogHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/websockets/extensions/ExtensionFunction.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/security/handlers/SecurityActions.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/form/EagerFormParsingHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/attribute/RequestPathAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/form/EagerFormParsingHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/attribute/StoredResponse.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/attribute/StoredResponse.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/client/http/HttpClientConnection.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/encoding/EncodingHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/client/ClientStatistics.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/security/handlers/SecurityInitialHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/protocols/ajp/AjpUtils.java
jar/io/undertow/client/ClientRequest.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/conduits/ConduitListener.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/protocol/http/HttpOpenListener.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/ConnectionPoolManager.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/session/InMemorySessionManager.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/security/api/AuthenticationMechanismContext.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/security/handlers/AbstractSecurityContextAssociationHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/security/impl/AbstractSecurityContext.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/protocol/framed/AbstractFramedStreamSourceChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/protocol/http2/Http2RstStreamStreamSourceChannel.java

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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/security/handlers/AbstractSecurityContextAssociationHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/security/impl/AbstractSecurityContext.java

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# io.undertow.protocols.ssl.SNIAlpnEngineManager
io.undertow.protocols.alpn.DefaultAlpnEngineManager

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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/protocols/ssl/SNIAlpnEngineManager.java

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*/
/**
* Returns an array containing all of the elements in this deque, in
* proper sequence (from first to last element).
*<p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*<p>This method acts as bridge between array-based and collection-based
* APIs.
*<p>@return an array containing all of the elements in this deque
*/

Found in path(s):
/gradle/intermediary/undertow-core-2-1-3-final-sources.jar/io/undertow/util/FastConcurrentDirectDeque.java
/gradle/intermediary/undertow-core-2-1-3-final-sources.jar/io/undertow/util/PortableConcurrentDirectDeque.java

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#

io.undertow.protocols.alpn.JDK8HackAlpnProvider
io.undertow.protocols.alpn.JettyAlpnProvider
io.undertow.protocols.alpn.JDK9AlpnProvider
io.undertow.protocols.alpn.OpenSSLAlpnProvider

Found in path(s):
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/META-INF/services/io.undertow.protocols.alpn.ALPNProvider

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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/proxy/RouteParsingStrategy.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/proxy/RouteIteratorFactory.java

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  jar/io/undertow/server/protocol/ajp/SecurityActions.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/CookieSameSiteMode.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/SameSiteCookieHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/resource/SecurityActions.java

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  jar/io/undertow/server/handlers/proxy/mod_cluster/Context.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/proxy/mod_cluster/Context.java
jar/io/undertow/server/handlers/proxy/mod_cluster/ModCluster.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/NodeConfig.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/NodePingUtil.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/MCMPPingClient.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/MCMCContainer.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/MCMCInfoUtil.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/MCMCErrorCode.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/MCMCConstants.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/ModClusterProxyTarget.java
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*/
/**
* Handler responsible for checking of confidentiality is required for the requested resource and if so rejecting the
* request and redirecting to a secure address.
 *
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
*/
/**
* Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
 *
* Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual
SSLSession.
 *
* @param exchange - The {@link HttpServerExchange} for the request being processed.
* @return true if the request is 'sufficiently' confidential, false otherwise.
*/
/**
* Use the HttpServerExchange to identify if confidentiality is required.
 *
* This method currently returns true for all requests, sub-classes can override this to provide a custom check.
 *
* TODO: we should deprecate this and just use a predicate to decide to execute the handler instead
 *
* @param exchange - The {@link HttpServerExchange} for the request being processed.
* @return true if the request requires confidentiality, false otherwise.
*/
/**
* All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the
current request return the address to use for a redirect should confidentiality be required and the request not be confidential.
 *
* @param exchange - The {@link HttpServerExchange} for the request being processed.
* @return The {@link URI} to redirect to.
*/
1.1242 netty-transport-native-epoll
4.1.33.Final

1.1242.1 Available under license:
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* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-jar/io/netty/channel/epoll/EpollMode.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
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* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-
  jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-
  jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1-
  jar/io/netty/channel/epoll/EpollEventLoopGroup.java
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/**
* Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
/**
* Set the {code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
* for more details.
*/

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* Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/

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  jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

1.1243 jboss-threads 3.1.0.Final
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1.1244 xnio-api 3.8.0.Final

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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/PushBackStreamChannel.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/AssembledConnectedMessageChannel.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/DelegatingChannelListener.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/ConcurrentStreamChannelAccessException.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ChannelPipe.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/AssembledSslChannel.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/conduits/SynchronizedMessageSourceConduit.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/conduits/NullStreamSinkConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ssl/JsseStreamSourceConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ssl/SslStreamSourceConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ssl/JsseStreamConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/management/XnioWorkerMXBean.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/conduits/StreamSinkConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/conduits/SynchronizedMessageSinkConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/conduits/InflatingStreamSourceConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/conduits/SynchronizedMessageSourceConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/StreamConnection.java
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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<one line to give the program's name and a brief idea of what it does.>
[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object...
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.1277 cracklib 2.9.0-11.el7
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Modifications: Added cronjob, configuration file, and man pages.

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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists=20
2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
-------------------------------------
---Original Message---
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20 GPL-2 ... it was a modified artistic license ... i didnt notice the license=20 change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless the=20 applications are also GPL-2 which imo is just wrong. it isnt the place of a=20 library to dictact to application writes what license they should be using.=20 thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
point,
> > it was enough to just get it consistent and documented as to what
it was
> > released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.
>
> the original license (before moving to sourceforge -- aka, 2.7) was
not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
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> change until it was mentioned in the latest notes.
>
> unlike the old license, GPL-2 prevents people from using cracklib
unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
place of a
> library to dictate to application writes what license they should
be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seem like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
> > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...
My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> >> Seems like the ideal thing here would be for you and the other distro
> >> maintainers to get together with Alec in a conversation and come to a
> >> decision as to what licensing scheme y'all want. I haven't really done
> >> much other than cleaning up the packaging and patches and a small
> >> bit of
> >> additional code, so whatever licensing y'all come up with is fine
> >> by me.
> >
> >> I am sympathetic. Guys, what do you reckon?
> >
> >> What I am hearing so far is that LGPL makes sense, since it can be
> >> linked with any code, not just GPL....
> >
> >> My apologies for not chiming in in anything resembling a reasonable
> >> timeframe.
> >
> >> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> >> GPLv2 with the option of using the library under a later version of the
> >> GPL would permit applications which were released under version 3 of the
> >> GPL to use the library, too, which would be sufficient for the packages
> >> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> >> In any case, I thank you both for working on sorting this out.
>

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

-----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd680710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd680710010908k11dac0afplf2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> > ---------- Forwarded message ----------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 15738
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um... 
University of Missouri - Rolla Phone: (573) 341-6679
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@[mailto:cracklib-devel-bounces@li...]
> On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@[mailto:cracklib-devel@li...]; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
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> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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> place of a
> > library to dictact to application writes what license they should
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.
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I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

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timeframe.
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> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike
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- a

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Attachments: Message as HTML

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>> make the change now ?
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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neuling.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (hel=192.168.1.3)
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 1IcOcX-0004Qt-6L
    for nneul@neuling.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dacoafp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dacoafp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neuling.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> >
> > -------- Forwarded message --------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alecm@crypto.dircon.co.uk
> >
> >
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.1278 guava 19.0

1.1279 tcp-wrappers 7.6 77.el7

1.1279.1 Available under license:

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<ORGANIZATION> = University of California, Berkeley
<YEAR> = 1998

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1.1280 less 458 9.el7

1.1280.1 Available under license:

Less License

Less

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.
To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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1.1283 bash 4.2.46-33.el7

1.1283.1 Available under license:

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-1ins)
  id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
  id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
  id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com by cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
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Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
  (8.6.10+cwru/CWRU-2.1-ins)
  id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
  id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
    "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).
-------

1.1284 wpa-supplicant 2.1-devel
1.1284.1 Available under license :
    wpa_supplicant and hostapd
-----------------------------
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1.1286 icu 50.1.2-17.el7

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $""$
@if $(SHELL) -ec "$(GEN_DEPS.c) $< \n| sed "s/a($*).o://g" > $@; \n[ -s $@ ] || rm -f $@"'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $""$
@if $(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed "s/a($*).o://g" > $@; \n[ -s $@ ] || rm -f $@"'

## Versioned libraries rules
%.%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.%.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ & & ln -s $< $@
%.%.$(SO): %.%.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ & & ln -s $< $%.$(SO).$(SO).$(SO_TARGET_VERSION) $@

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1.1287 librabbitmq 0.7.1
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1.1288 unixodbc 2.3.1-14.el7
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For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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Most GNU software, including some libraries, is covered by the ordinary
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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
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sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
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libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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### libcurl 7.19.4

#### License Mixing

Libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

```markdown
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```
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## GnuTLS

(May be used for SSL/TLS support) Uses the LGPL license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link
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## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

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## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.1318 opensaml-xmlsec-impl 3.4.5

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.
Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

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1.1323 pcre 8.11

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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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scriptversion=2010-08-21.06; # UTC

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Glenn Randers-Pehrson
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June 26, 2010

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JUnit

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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1.1342 commons-beanutils 1.7.0

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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2.jar/org/apache/commons/beanutils/locale/LocaleBeanUtilsBean.java
1.1344 expat 2.1.0 10.el7_3

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1.1345 tomcat-api 9.0.37

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src/manual/en_US/docgen-originals/figures/tree_with_alpha.png
src/manual/en_US/favicon.png
src/manual/en_US/figures/model2sketch.png
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*/
/**
* A decoder that splits the received \{@link ByteBuf\}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*<p>
*\{@link LengthFieldBasedFrameDecoder\} has many configuration parameters so
*that it can decode any message with a length field, which is often seen in
*proprietary client-server protocols. Here are some example that will give
*you the basic idea on which option does what.
*<p>
*<h3>2 bytes length field at offset 0, do not strip header</h3>
*<p>
* The value of the length field in this example is \{tt\}12 (0x0C)\{tt\} which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
```
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
  * +--------+----------------+      +--------+----------------+
  * | Length | Actual Content |----->| Length | Actual Content |
  * | 0x000C | HELLO, WORLD    |      | 0x000C | HELLO, WORLD   |
  * +--------+----------------+      +--------+----------------+

* </pre>

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
  * +--------+----------------+      +----------------+
  * | Length | Actual Content |----->| Actual Content |
  * | 0x000C | HELLO, WORLD    |      | HELLO, WORLD   |
  * +--------+----------------+      +----------------+

* </pre>

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
  * +--------+----------------+      +----------------+
  * | Length | Actual Content |----->| Actual Content |
  * | 0x000C | HELLO, WORLD    |      | HELLO, WORLD   |
  * +--------+----------------+      +----------------+

* </pre>

Because we can get the length of the content by calling
* @link ByteBuf#readableBytes(), you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
  * +--------+----------------+      +----------------+
  * | Length | Actual Content |----->| Actual Content |
  * | 0x000C | HELLO, WORLD    |      | HELLO, WORLD   |
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* </pre>

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  * | Length | Actual Content |----->| Actual Content |
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  * +--------+----------------+      +----------------+

* </pre>

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
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* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
  * +--------+----------------+      +----------------+
  * | Length | Actual Content |----->| Actual Content |
  * | 0x000C | HELLO, WORLD    |      | HELLO, WORLD   |
  * +--------+----------------+      +----------------+

* </pre>

Because we can get the length of the content by calling
* @link ByteBuf#readableBytes(), you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.

In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* lengthAdjustment. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as lengthAdjustment for compensation.

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
  * +--------+----------------+      +----------------+
  * | Length | Actual Content |----->| Actual Content |
  * | 0x000C | HELLO, WORLD    |      | HELLO, WORLD   |
  * +--------+----------------+      +----------------+

* </pre>

Because we can get the length of the content by calling
* @link ByteBuf#readableBytes(), you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
The following message is a simple variation of the first example. An extra header value is prepended to the message. \texttt{lengthAdjustment} is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```plaintext
lengthFieldOffset = 2 (= the length of Header 1)
lengthFieldLength = 3
lengthAdjustment = 0
initialBytesToStrip = 0
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive \texttt{lengthAdjustment} so that the decoder counts the extra header into the frame length calculation.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
lengthAdjustment = 2 (= the length of Header 1)
initialBytesToStrip = 0
```

This is a complex example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive \texttt{lengthAdjustment} so that the decoder counts the extra header into the frame length calculation.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
lengthAdjustment = 2 (= the length of Header 1)
initialBytesToStrip = 0
```
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra
* header affects the `<tt>lengthAdjustment</tt>` field. We also specified a non-zero
* `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended
* header from the frame. If you don’t want to strip the prepended header, you
* could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.
* `<pre>`
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* `<pre>`
* * BEFORE DECODE (16 bytes)               AFTER DECODE (13 bytes)
* +----------------+-----------------+      +-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+-----------------+      +-----------------+
* </pre>
* *
* `<h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>`
* *
* Let’s give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>.
* Please note that we don’t need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* `<pre>`
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
* `<pre>`
* * BEFORE DECODE (16 bytes)               AFTER DECODE (13 bytes)
* +----------------+-----------------+      +-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+-----------------+      +-----------------+
* </pre>
* *
* @see LengthFieldPrepender
*/

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jar/io/netty/handler/codec/ValueConverter.java
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jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
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* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java
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* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-jar/io/netty/handler/codec/DatagramPacketDecoder.java
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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* */

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.1356 xml-apis 2.0.2
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 * Base class for deriving an XML filter.
 *
 * <blockquote>
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 * </blockquote>
 *
 * This class is designed to sit between an { @link org.xml.sax.XMLReader
 * XMLReader } and the client application's event handlers. By default, it
 * does nothing but pass requests up to the reader and events
 * on to the handlers unmodified, but subclasses can override
 * specific methods to modify the event stream or the configuration
 * requests as they pass through.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/XMLFilterImpl.java
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/**
 * Basic interface for SAX error handlers.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * </blockquote>
 *
 * <p>If a SAX application needs to implement customized error
 * handling, it must implement this interface and then register an
 * instance with the XML reader using the</p>
 * <code>{@link org.xml.sax.XMLReader#setErrorHandler setErrorHandler}</code>
 * method. The parser will then report all errors and warnings
 * through this interface. </p>
 *
 * <p><strong>WARNING:</strong> If an application does not register an ErrorHandler, XML parsing errors will go unreported
 * and bizarre behaviour may result. </p>
 *
 * <p>For XML processing errors, a SAX driver must use this interface
 * instead of throwing an exception: it is up to the application
 * to decide whether to throw an exception for different types of
 * errors and warnings. Note, however, that there is no requirement that
 * the parser continue to provide useful information after a call to</p>
 * <code>{@link #fatalError fatalError}</code> (in other words, a SAX driver class
 * could catch an exception and report a fatalError). </p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser#setErrorHandler
 * @see org.xml.sax.SAXParseException
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ErrorHandler.java

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/**
 * Interface for a list of XML attributes.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
 * </blockquote>

This interface allows access to a list of attributes in three different ways:

- by attribute index;
- by Namespace-qualified name; or
- by qualified (prefixed) name.

The list will not contain attributes that were declared #IMPLIED but not specified in the start tag. It will also not contain attributes used as Namespace declarations (xmlns*) unless the http://xml.org/sax/features/namespace-prefixes feature is set to true (it is false by default).

If the namespace-prefixes feature (see above) is false, access by qualified name may not be available; if the http://xml.org/sax/features/namespaces feature is false, access by Namespace-qualified names may not be available.

This interface replaces the now-deprecated SAX1 AttributeList interface, which does not contain Namespace support. In addition to Namespace support, it adds the getIndex methods (below).

The order of attributes in the list is unspecified, and will vary from implementation to implementation.

Called by sax@megginson.com, sax@megginson.com, sax@megginson.com,
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* </blockquote>*
*
* `<p>` AttributeList implements the deprecated SAX1 [@link org.xml.sax.AttributeList AttributeList] interface, and has been replaced by the new SAX2 [@link org.xml.sax.helpers.AttributesImpl AttributesImpl] interface. </p>*
*
* `<p>` This class provides a convenience implementation of the SAX [AttributeList] interface. This implementation is useful both for SAX parser writers, who can use it to provide attributes to the application, and for SAX application writers, who can use it to create a persistent copy of an element's attribute specifications: </p>*
*
* `<pre>`
* private AttributeList myatts;
* 
* public void startElement (String name, AttributeList atts)
* {
*   // create a persistent copy of the attribute list
*   // for use outside this method
*   myatts = new AttributeListImpl(atts);
*   [...]
* }
* </pre>*
*
* `<p>` Please note that SAX parsers are not required to use this class to provide an implementation of AttributeList; it is supplied only as an optional convenience. In particular, parser writers are encouraged to invent more efficient implementations. </p>*
*
* [@deprecated] This class implements a deprecated interface, [AttributeList]; that interface has been replaced by [Attributes], which is implemented in the [AttributesImpl] helper class.*
* @since SAX 1.0
* @author David Megginson,
* `<a href="mailto:sax@megginson.com">sax@megginson.com</a>`
* @version 2.0
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
* /
// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for an XML filter.
 * 
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * 
 * <p>An XML filter is like an XML reader, except that it obtains its
 * events from another XML reader rather than a primary source like
 * an XML document or database. Filters can modify a stream of
 * events as they pass on to the final application.</p>
 * 
 * <p>The XMLFilterImpl helper class provides a convenient base
 * for creating SAX2 filters, by passing on all {
 * @link org.xml.sax.EntityResolver EntityResolver
 * }, {
 * @link org.xml.sax.DTDHandler DTDHandler
 * }, {
 * @link org.xml.sax.ContentHandler ContentHandler
 * } and {
 * @link org.xml.sax.ErrorHandler ErrorHandler
 * } events automatically.</p>
 * 
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.helpers.XMLFilterImpl
 */

/* Interface for associating a SAX event with a document location.
 */

Authenticate this text with an Open Source License Detection tool.
* setDocumentLocator} method. The application can use the
* object to obtain the location of any other content handler event
* in the XML source document.</p>
*
* <p>Note that the results returned by the object will be valid only
* during the scope of each content handler method: the application
* will receive unpredictable results if it attempts to use the
* locator at any other time.</p>
*
* SAX parsers are not required to supply a locator, but they are
* very strongly encouraged to do so. If the parser supplies a
* locator, it must do so before reporting any other document events.
* If no locator has been set by the time the application receives
* the { @link org.xml.sax.ContentHandler#startDocument startDocument} event, the application should assume that a locator is not
* available.</p>
*
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.ContentHandler#setDocumentLocator
*/

/**
 * Receive notification of basic DTD-related events.
 *
 * @blockquote
 * This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * @blockquote
 *
 * If a SAX application needs information about notations and
 * unparsed entities, then the application implements this
 * interface and registers an instance with the SAX parser using
 * the parser's setDTDHandler method. The parser uses the
 * instance to report notation and unparsed entity declarations to
 * the application.</p>
 *
 * Note that this interface includes only those DTD events that
 * the XML recommendation <em>requires</em> processors to report:
 * notation and unparsed entity declarations.</p>
 *
 * The SAX parser may report these events in any order, regardless
* of the order in which the notations and unparsed entities were
* declared; however, all DTD events must be reported after the
* document handler's startDocument event, and before the first
* startElement event.</p>

*<p>It is up to the application to store the information for
* future use (perhaps in a hash table or object tree).
* If the application encounters attributes of type "NOTATION",
* "ENTITY", or "ENTITIES", it can use the information that it
* obtained through this interface to find the entity and/or
* notation corresponding with the attribute value.</p>

* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser#setDTDHandler
* @see org.xml.sax.HandlerBase
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/DTDHandler.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2.0-2-sources-2-
  jar/javax/xml/parsers/ConvertToURI.java

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/**
* Default base class for handlers.
* 
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* 
* <p>This class implements the default behaviour for four SAX1
* interfaces: EntityResolver, DTDHandler, DocumentHandler,
* and ErrorHandler. It is now obsolete, but is included in SAX2 to
* support legacy SAX1 applications. SAX2 applications should use
  the [@link org.xml.sax.helpers.DefaultHandler DefaultHandler]
  * class instead.</p>

* <p>Application writers can extend this class when they need to
  implement only part of an interface; parser writers can
  instantiate this class to provide default handlers when the
  application has not supplied its own.</p>

* <p>Note that the use of this class is optional.</p>

* @deprecated This class works with the deprecated
  *          [@link org.xml.sax.DocumentHandler DocumentHandler]
  *          interface. It has been replaced by the SAX2
  *          [@link org.xml.sax.helpers.DefaultHandler DefaultHandler]
  *          class.
  * @since SAX 1.0
* @author David Megginson,
  *          <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/HandlerBase.java
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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ls/DOMBuilderFilter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ls/DOMInputSource.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ls/DocumentLS.java
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 */
/**
 * <strong>DOM Level 3 WD Experimental:</strong>
 * The DOM Level 3 specification is at the stage
 * of Working Draft, which represents work in
 * progress and thus may be updated, replaced,
 * or obsoleted by other documents at any time. </strong> <p>
 * <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0
 * expressions with no specialized extension functions or variables. It is
 * expected that the <code>XPathEvaluator</code> interface will be
 * implemented on the same object which implements the <code>Document</code>
 * interface in an implementation which supports the XPath DOM module.
 * <code>XPathEvaluator</code> implementations may be available from other
 * sources that may provide support for special extension functions or
 * variables which are not defined in this specification. The methods of
XPathExpression should be named with more-XPath-specific names because
the interface will often be implemented by the same object which
implements document. No change. The point of interfaces is to localize the
implementing namespace. This would make the method names unnecessarily
long and complex even though there are no conflicts in the interface
itself. The new core method getInterface is designed for discovering
interfaces of additional modules that may not be directly implemented on
the objects to which they are attached. This could be used to implement
XPath on a separate object. The user only refers to the separate
interfaces and not the proprietary aggregate implementation. Should entity
refs be supported so that queries can be made on them? No change. We will
not do this now. They are not part of the XPath data model. Note that
they may be present in the hierarchy of returned nodes, but may not
directly be requested or returned in the node set. What does createResult
create when one wants to reuse the XPath? It is not useful. Removed method.
Should ordering be a separate flag, or a type of result that can be
requested. As a type of result, it can be better optimized in
implementations. It makes sense as a type of result. Changed. Removed
method. Implementing XPathEvaluator on Document can be a problem due to
conflicts in the names of the methods. The working group finds no better
solution. GetInterface in Level 3 permits the object to be implemented
separately. We should be committed to this. We will leave this issue open
to see if we get more feedback on it. How does this interface adapt to
XPath 2.0 and other query languages. No change. This interface is not
intended to adapt to XPath 2.0 or other languages. The models of these
are likely to be incompatible enough to require new APIs. For alternate
implementations that can use this APL, it can be obtained from different
sources. Support for custom variables and functions would be very useful.
No change. It is possible for an implementation to supply alternative
sources of an XPathEvaluator that can be customized with a custom
variable and function context. We do not specify how this is
accomplished. It is too complex to address in this version of the XPath
DOM.
See also the <a href='http://www.w3.org/TR/2002/WD-DOM-Level-3-XPath-20020328'>Document Object
Model (DOM) Level 3 XPath Specification</a>.

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/xpath/XPathEvaluator.java
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/**

* Interface for an element's attribute specifications.
*
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>. </blockquote>
*/
This is the original SAX1 interface for reporting an element's attributes. Unlike the new Attributes interface, it does not support Namespace-related information.

When an attribute list is supplied as part of a startElement event, the list will return valid results only during the scope of the event; once the event handler returns control to the parser, the attribute list is invalid. To save a persistent copy of the attribute list, use the SAX1 AttributeListImpl helper class.

An attribute list includes only attributes that have been specified or defaulted: #IMPLIED attributes will not be included.

There are two ways for the SAX application to obtain information from the AttributeList. First, it can iterate through the entire list:

```
public void startElement (String name, AttributeList atts) {
  for (int i = 0; i < atts.getLength(); i++) {
    String name = atts.getName(i);
    String type = atts.getType(i);
    String value = atts.getValue(i);
    [...]
  }
}
```

(Note that the result of getLength() will be zero if there are no attributes.)

As an alternative, the application can request the value or type of specific attributes:

```
public void startElement (String name, AttributeList atts) {
  String identifier = atts.getValue("id");
  String label = atts.getValue("label");
  [...]
}
```

@deprecated This interface has been replaced by the SAX2
**Attributes**

interface, which includes Namespace support.

@since SAX 1.0

@author David Megginson,

sax@megginson.com

@version 2.0

@see org.xml.sax.DocumentHandler#startElement startElement

@see org.xml.sax.helpers.AttributeListImpl AttributeListImpl

/**

* Receive notification of general document events.

* @deprecated This interface has been replaced by the SAX2
*             ContentHandler interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*         sax@megginson.com
* @version 2.0

*/

Found in path(s):

/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2.jar/org/xml/sax/AttributeList.java

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/**

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* Public Domain, and comes with **NO WARRANTY**.</em>

*/

<p>This was the main event-handling interface for SAX1; in
SAX2, it has been replaced by [ContentHandler], which provides Namespace support and reporting
of skipped entities. This interface is included in SAX2 only
** to support legacy SAX1 applications.</p>

<p>The order of events in this interface is very important, and
mirrors the order of information in the document itself. For
example, all of an element's content (character data, processing
instructions, and/or subelements) will appear, in order, between
the startElement event and the corresponding endElement event.</p>

<p>Application writers who do not want to implement the entire
interface can derive a class from HandlerBase, which implements
the default functionality; parser writers can instantiate
HandlerBase to obtain a default handler. The application can find
the location of any document event using the Locator interface
supplied by the Parser through the setDocumentLocator method.</p>

@deprecated This interface has been replaced by the SAX2
interface, which includes Namespace support.

@since SAX 1.0

@author David Megginson,

sax@megginson.com

@version 2.0
* @see org.xml.sax.Parser#setDocumentHandler
* @see org.xml.sax.Locator
* @see org.xml.sax.HandlerBase
*/

Found in path(s):
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Factory for creating an XML reader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with *strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class contains static methods for creating an XML reader
 * from an explicit class name, or based on runtime defaults:
 *
 * <pre>
 * try {
 * XMLReader myReader = XMLReaderFactory.createXMLReader();
 * } catch (SAXException e) {
 * System.err.println(e.getMessage());
 * }
 * </pre>
 *
 * Note to Distributions bundled with parsers:
 * You should modify the implementation of the no-arguments
 * createXMLReader to handle cases where the external
 * configuration mechanisms aren't set up. That method should do its
 * best to return a parser when one is in the class path, even when
 * nothing bound its class name to <code>org.xml.sax.driver</code> so
 * those configuration mechanisms would see it.
 *
 * @since SAX 2.0
 * @author David Megginson, David Brownell
 * @version 2.0r2pre3
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/XMLReaderFactory.java
// This class is in the Public Domain. NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.
 * </em>
 * </blockquote>
 *
 * This class encapsulates the logic of Namespace processing:
 * it tracks the declarations currently in force for each context
 * and automatically processes qualified XML 1.0 names into their
 * Namespace parts; it can also be used in reverse for generating
 * XML 1.0 from Namespaces.
 *
 * Namespace support objects are reusable, but the reset method
 * must be invoked between each session.
 *
 * Here is a simple session:
 *
 * String parts[] = new String[3];
 * NamespaceSupport support = new NamespaceSupport();
 *
 * support.pushContext();
 * support.declarePrefix("", "http://www.w3.org/1999/xhtml");
 * support.declarePrefix("dc", "http://www.purl.org/dc#");
 *
 * String parts[] = support.processName("p", parts, false);
 * System.out.println("Namespace URI: " + parts[0]);
 * System.out.println("Local name: " + parts[1]);
 * System.out.println("Raw name: " + parts[2]);
 *
 * String parts[] = support.processName("dc:title", parts, false);
 * System.out.println("Namespace URI: " + parts[0]);
 * System.out.println("Local name: " + parts[1]);
 * System.out.println("Raw name: " + parts[2]);
 *
 * support.popContext();
 * </pre>
 *
 * Note that this class is optimized for the use case where most
 * elements do not contain Namespace declarations: if the same
 * prefix/URI mapping is repeated for each context (for example), this
 * class will be somewhat less efficient.
 */
// NO WARRANTY!  This class is in the public domain.
/**
 * Default base class for SAX2 event handlers.
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 */

Application writers can extend this class when they need to
implement only part of an interface; parser writers can
 instantiate this class to provide default handlers when the
application has not supplied its own.</p>

This class replaces the deprecated SAX1
[@link org.xml.sax.HandlerBase HandlerBase} class.</p>

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.EntityResolver
@see org.xml.sax.ErrorHandler
@see org.xml.sax.DTDHandler
@see org.xml.sax.ContentHandler
@see org.xml.sax.ErrorHandler
*/
/**
 * Encapsulate an XML parse error or warning.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This exception will include information for locating the error
 * in the original XML document. Note that although the application
 * will receive a SAXParseException as the argument to the handlers
 * in the {@link org.xml.sax.ErrorHandler ErrorHandler} interface,
 * the application is not actually required to throw the exception;
 * instead, it can simply read the information in it and take a
 * different action.
 *
 * Since this exception is a subclass of {@link org.xml.sax.SAXException
 * saxexception}, it inherits the ability to wrap another exception.
 *
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXException
 * @see org.xml.sax.Locator
 * @see org.xml.sax.ErrorHandler
 */

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/Text.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/events/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/Notation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/events/DocumentEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/events/EventTarget.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/Attr.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ProcessingInstruction.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/events/Exception.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/traversal/TreeWalker.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/events/MutationEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/Comment.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/EntityReference.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/DocumentFragment.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/CDATASection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/Node.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/NodeList.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/DocumentType.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/DOMImplementation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/events/EventListener.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/traversal/NodeIterator.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/Entity.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ranges/DocumentRange.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/DOMException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/Element.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/w3c/dom/ranges/Range.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
/**
 * Basic interface for resolving entities.
 */

* * <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.
* </em>
* </blockquote>

* * If a SAX application needs to implement customized handling
* for external entities, it must implement this interface and
* register an instance with the SAX driver using the
* [@link org.xml.sax.XMLReader#setEntityResolver setEntityResolver] method.
* *
* * The XML reader will then allow the application to intercept any
* external entities (including the external DTD subset and external
* parameter entities, if any) before including them.
* *
* * Many SAX applications will not need to implement this interface,
* but it will be especially useful for applications that build
* XML documents from databases or other specialised input sources,
* or for applications that use URI types other than URLs.
* *
* * The following resolver would provide the application
* with a special character stream for the entity with the system
* identifier "http://www.myhost.com/today":
* *
* * import org.xml.sax.EntityResolver;
* import org.xml.sax.InputSource;
* *
* public class MyResolver implements EntityResolver {
*   public InputSource resolveEntity (String publicId, String systemId)
*     {
*       if (systemId.equals("http://www.myhost.com/today")) {
*         // return a special input source
*         MyReader reader = new MyReader();
*         return new InputSource(reader);
*       } else {
*         // use the default behaviour
*         return null;
*       }
*     }
*   }
* }

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The application can also use this interface to redirect system identifiers to local URIs or to look up replacements in a catalog (possibly by using the public identifier).

@since SAX 1.0
@version 2.0
@see org.xml.sax.Parser#setEntityResolver
@see org.xml.sax.InputSource

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Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/EntityResolver.java

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLParagraphElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLSelectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLMenuElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHeadingElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableCellElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHeadElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBaseFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLUListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLStyleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLOptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLOListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFieldSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLegendElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFormElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLCollection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTextAreaElement.java
*/

/**
 * Provide an optional convenience implementation of Locator.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.
 * </blockquote>
 *
 * This class is available mainly for application writers, who
 * can use it to make a persistent snapshot of a locator at any
 * point during a document parse:
 *
 * <pre>
 * Locator locator;
 * Locator startloc;
 *
 * public void setLocator (Locator locator)
 * {
 *       // note the locator
 *       this.locator = locator;
 *  }
 *
 * public void startDocument ()
 * {
 *       // save the location of the start of the document
 *       // for future use.
 *       Locator startloc = new LocatorImpl(locator);
 *  }
 * </pre>
 *
 * Normally, parser writers will not use this class, since it
 * is more efficient to provide location information only when
 * requested, rather than constantly updating a Locator object.
 *
 * @since SAX 1.0
 * @author David Megginson,
 *          <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Locator Locator
 */

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  jar/org/xml/sax/helpers/LocatorImpl.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryFinder.java 
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryConfigurationError.java 
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParserFactory.java 
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParser.java 

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// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for reading an XML document using callbacks.
 */
*<blockquote>
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*Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
</blockquote>

<p><strong>Note:</strong> despite its name, this interface does not extend the standard Java [ @link java.io.Reader Reader ]
*interface, because reading XML is a fundamentally different activity
*than reading character data.</p>

*<p>XMLReader is the interface that an XML parser's SAX2 driver must
*implement. This interface allows an application to set and
*query features and properties in the parser, to register
*event handlers for document processing, and to initiate
*a document parse.</p>
All SAX interfaces are assumed to be synchronous: the
parse methods must not return until parsing
is complete, and readers must wait for an event-handler callback
to return before reporting the next event.

This interface replaces the (now deprecated) SAX 1.0 interface. The XMLReader interface
contains two important enhancements over the old Parser
interface:

- it adds a standard way to query and set features and
  properties; and
- it adds Namespace support, which is required for many
  higher-level XML standards.

There are adapters available to convert a SAX1 Parser to
a SAX2 XMLReader and vice-versa.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.XMLFilter
@see org.xml.sax.helpers.ParserAdapter
@see org.xml.sax.helpers.XMLReaderAdapter

A single input source for an XML entity.

This module, both source code and documentation, is in the
Public Domain, and comes with NO WARRANTY.

This class allows a SAX application to encapsulate information
about an input source in a single object, which may include
a public identifier, a system identifier, a byte stream (possibly
with a specified encoding), and/or a character stream.

There are two places that the application will deliver this
* input source to the parser: as the argument to the Parser.parse
* method, or as the return value of the EntityResolver.resolveEntity
* method. </p>
*
* &lt;p&gt;The SAX parser will use the InputSource object to determine how
* to read XML input. If there is a character stream available, the
* parser will read that stream directly; if not, the parser will use
* a byte stream, if available; if neither a character stream nor a
* byte stream is available, the parser will attempt to open a URI
* connection to the resource identified by the system
* identifier. </p>
*
* &lt;p&gt;An InputSource object belongs to the application: the SAX parser
* shall never modify it in any way (it may modify a copy if
* necessary). </p>
*
* @since SAX 1.0
* @author David Megginson,
* &lt;a href="mailto:sax@megginson.com">sax@megginson.com</a&gt;
* @version 2.0
* @see org.xml.sax.Parser#parse
* @see org.xml.sax.EntityResolver#resolveEntity
* @see java.io.InputStream
* @see java.io.Reader
* /

Found in path(s):
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Exception class for an unsupported operation.
 *
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 * Public Domain, and comes with &lt;strong&gt;NO WARRANTY&lt;/strong&gt;. &lt;/em&gt
 */

* &lt;p&gt;An XMLReader will throw this exception when it recognizes a
* feature or property identifier, but cannot perform the requested
* operation (setting a state or value). Other SAX2 applications and
* extensions may use this class for similar purposes. </p>
*
* @since SAX 2.0
* @author David Megginson,
* &lt;a href="mailto:sax@megginson.com">sax@megginson.com</a&gt;
* @version 2.0
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
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// NO WARRANTY!  This class is in the public domain.
/**
* Adapt a SAX1 Parser as a SAX2 XMLReader.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with NO WARRANTY</em>
* </blockquote>
This class wraps a SAX1 \{@link org.xml.sax.Parser Parser\} and makes it act as a SAX2 \{@link org.xml.sax.XMLReader XMLReader\}, with feature, property, and Namespace support. Note that it is not possible to report \{@link org.xml.sax.ContentHandler#skippedEntity skippedEntity\} events, since SAX1 does not make that information available.

This adapter does not test for duplicate Namespace-qualified attribute names.

@since SAX 2.0
@author David Megginson,
        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.helpers.XMLReaderAdapter
@see org.xml.sax.XMLReader
@see org.xml.sax.Parser

Adapt a SAX1 AttributeList as a SAX2 Attributes object.

This class is in the Public Domain, and comes with NO WARRANTY of any kind.

This wrapper class is used only when Namespace support is disabled -- it provides pretty much a direct mapping from SAX1 to SAX2, except that names and types are interned whenever requested.

Default implementation of the Attributes interface.

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This class provides a default implementation of the SAX2 \{ @link org.xml.sax.Attributes Attributes \} interface, with the
* addition of manipulators so that the list can be modified or
* reused.</p>
*<p>
*
*<p>There are two typical uses of this class:</p>
*<ol>
*<li>to take a persistent snapshot of an Attributes object
* in a { @link org.xml.sax.ContentHandler#startElement startElement event; or</li>
*<li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
*<ol>
*<p>This class replaces the now-deprecated SAX1 { @link
* org.xml.sax.helpers.AttributeListImpl AttributeListImpl}
* class; in addition to supporting the updated Attributes
* interface rather than the deprecated { @link org.xml.sax.AttributeList
* AttributeList} interface, it also includes a much more efficient
* implementation using a single array rather than a set of Vectors.</p>
*<p></p>
*<p>@since SAX 2.0</p>
*<p>@author David Megginson</p>
*<p>@version 2.0.1 (sax2r2)</p>
*/

Found in path(s):
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jar/org/xml/sax/helpers/AttributesImpl.java
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/**
 * Create a new instance of a class by name.
 *
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 *for further information.
 *</blockquote>
 *
 *<p>This class contains a static method for creating an instance of a
 *class from an explicit class name. It tries to use the thread's context
 *ClassLoader if possible and falls back to using
 *Class.forName(String). It also takes into account JDK 1.2+'s
 *AccessController mechanism for performing its actions.</p>
 *
 *<p>This code is designed to run on JDK version 1.1 and later and compile
 *on versions of Java 2 and later.</p>
Encapsulate a general SAX error or warning.

This class can contain basic error or warning information from
either the XML parser or the application: a parser writer or
application writer can subclass it to provide additional
functionality. SAX handlers may throw this exception or
any exception subclassed from it.

If the application needs to pass through other types of
exceptions, it must wrap those exceptions in a SAXException
or an exception derived from a SAXException.

If the parser or application needs to include information about a
specific location in an XML document, it should use the
[SAXParseException subclass.]

Since SAX 1.0

@since SAX 1.0
@version 2.0
@see org.xml.sax.SAXParseException

// NO WARRANTY! This class is in the Public Domain.

Exception class for an unrecognized identifier.

This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
* </blockquote>
* 
* <p>An XMLReader will throw this exception when it finds an
* unrecognized feature or property identifier; SAX applications and
* extensions may use this class for other, similar purposes.</p>
* 
* @since SAX 2.0
* @author David Megginson,
* * <a href="mailto:sax@megginson.com">sax@megginson.com</a></p>
* @version 2.0
* @see org.xml.sax.SAXNotSupportedException
* */

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* */
/**
* Create a new <code>DOMBuilder</code>. The newly constructed parser may
* then be configured by means of its <code>setFeature</code> method,
* and used to parse documents by means of its <code>parse</code>
* method.
* @param mode  The <code>mode</code> argument is either
* <code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if
* <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
* <code>DOMBuilder</code> that is created will operate in synchronous mode, if it's <code>MODEASYNCHRONOUS</code> then the
* <code>DOMBuilder</code> that is created will operate in asynchronous mode.

* @param schemaType  An absolute URI representing the type of the schema language used during the load of a <code>Document</code> using the newly created <code>DOMBuilder</code>. Note that no lexical checking is done on the absolute URI. In order to create a <code>DOMBuilder</code> for any kind of schema types (i.e. the <code>DOMBuilder</code> will be free to use any schema found), use the value <code>null</code>. For W3C XML Schema, applications must use the value <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD, applications must use the value <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages are outside the scope of the W3C and therefore should recommend an absolute URI in order to use this method.

* @return  The newly created <code>DOMBuilder</code> object. This <code>DOMBuilder</code> is either synchronous or asynchronous depending on the value of the <code>mode</code> argument. By default, the newly created <code>DOMBuilder</code> does not contain a <code>DOMErrorHandler</code>, i.e. the value of the <code>errorHandler</code> is <code>null</code>. However, implementations may provide a default error handler at creation time. In that case, the initial value of the <code>errorHandler</code> attribute on the new created <code>DOMBuilder</code> contains a reference to the default error handler.

* @exception DOMException NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is not supported.

*/

Found in path(s):
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/**
* Basic interface for SAX (Simple API for XML) parsers.
*
* <blockquote>
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* </blockquote>
* <p>This was the main event supplier interface for SAX1; it has been replaced in SAX2 by {@link org.xml.sax.XMLReader XMLReader}, which includes Namespace support and sophisticated configurability
*/

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* and extensibility.</p>
*
* <p>All SAX1 parsers must implement this basic interface: it allows
* applications to register handlers for different types of events
* and to initiate a parse from a URI, or a character stream.</p>
*
* <p>All SAX1 parsers must also implement a zero-argument constructor
* (though other constructors are also allowed).</p>
*
* <p>SAX1 parsers are reusable but not re-entrant: the application
* may reuse a parser object (possibly with a different input source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
*
* @deprecated This interface has been replaced by the SAX2
*             {@link org.xml.sax.XMLReader XMLReader}
*             interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Parser.java
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// Public Domain: no warranty.
/**
 * SAX2 extension handler for DTD declaration events.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This is an optional extension handler for SAX2 to provide
 * information about DTD declarations in an XML document. XML
 * readers are not required to support this handler, and this
 * handler is not included in the core SAX2 distribution.</p>
 *
 * <p>Note that data-related DTD declarations (unparsed entities and
If you are using the declaration handler together with a lexical handler, all of the events will occur between the
* {@link org.xml.sax.ext.LexicalHandler#startDTD startDTD} and the
* {@link org.xml.sax.ext.LexicalHandler#endDTD endDTD} events.</p>

To set the DeclHandler for an XML reader, use the
* {@link org.xml.sax.XMLReader#setProperty setProperty} method
* with the propertyId "http://xml.org/sax/properties/declaration-handler".
* If the reader does not support declaration events, it will throw a
* [@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException] or a
* [@link org.xml.sax.SAXNotSupportedException SAXNotSupportedException] when you attempt to register the handler.</p>

@since 1.0
@author David Megginson,
@see org.xml.sax.XMLReader
*/

/**
* Java-specific class for dynamically loading SAX parsers.
*<blockquote>
*This module, both source code and documentation, is in the
*Public Domain, and comes with <strong>NO WARRANTY</strong>.<br>
*</blockquote>
*<p><strong>Note:</strong> This class is designed to work with the now-deprecated
*SAX1 [ @link org.xml.sax.Parser] class. SAX2 applications should use
*[@link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory] instead.</p>
*ParserFactory is not part of the platform-independent definition
*of SAX; it is an additional convenience class designed
*specifically for Java XML application writers. SAX applications
*can use the static methods in this class to allocate a SAX parser
*dynamically at run-time based either on the value of the
*`org.xml.sax.parser' system property or on a string containing the class
* name.</p>
*
* <p>Note that the application still requires an XML parser that
* implements SAX1.</p>
*
* @deprecated This class works with the deprecated
* @link org.xml.sax.Parser Parser}@since SAX 1.0
* @author David Megginson
* @version 2.0r2pre3
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
* jar/org/xml/sax/helpers/ParserFactory.java
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 jar/java/xml/parsers/FilePathToURI.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class wraps a SAX2 {@link org.xml.sax.XMLReader XMLReader}
 * and makes it act as a SAX1 {@link org.xml.sax.Parser Parser}. The XMLReader
 * must support a true value for the
 * http://xml.org/sax/features/namespace-prefixes property or parsing will fail
 * with a [@link org.xml.sax.SAXException SAXException] ; if the XMLReader
 * supports a false value for the http://xml.org/sax/features/namespace-prefixes
 * property, that will also be used to improve efficiency.</p>
// NO WARRANTY! This class is in the public domain.
/**
 * Receive notification of the logical content of a document.
 *
 * This is the main interface that most SAX applications
 * implement: if the application needs to be informed of basic parsing
 * events, it implements this interface and registers an instance with
 * the SAX parser using the \{@link org.xml.sax.XMLReader#setContentHandler
 * setContentHandler\} method. The parser uses the instance to report
 * basic document-related events like the start and end of elements
 * and character data.</p>
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.</p>
 *
 * This interface is similar to the now-deprecated SAX 1.0
 * DocumentHandler interface, but it adds support for Namespaces
 * and for reporting skipped entities (in non-validating XML
 * processors).</p>
 *
 * Implementors should note that there is also a Java class
 * \{@link java.net.ContentHandler ContentHandler\} in the java.net
 * package; that means that it's probably a bad idea to do</p>
 *
 <blockquote>
 import java.net.*;
</blockquote>
* import org.xml.sax.*;
* </blockquote>
*
* <p>In fact, "import ...*" is usually a sign of sloppy programming anyway, so the user should consider this a feature rather than a bug.</p>
*
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/

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/**
* SAX2 extension handler for lexical events.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>This is an optional extension handler for SAX2 to provide lexical information about an XML document, such as comments and CDATA section boundaries; XML readers are not required to support this handler, and it is not part of the core SAX2 distribution.</p>
*
* <p>The events in the lexical handler apply to the entire document, not just to the document element, and all lexical handler events must appear between the content handler's startDocument and endDocument events.</p>
*
* <p>To set the LexicalHandler for an XML reader, use the method</p>
* with the propertyId "http://xml.org/sax/properties/lexical-handler". If the reader does not support lexical events, it will throw a SAXNotRecognizedException or a SAXNotSupportedException when you attempt to register the handler.</p>
1.1357 mesa 18.3.4-6.el7
1.1357.1 Available under license:
libfreedreno_layout = static_library(
    'freedreno_layout',
    [
        'fd5_layout.c',
        'fd6_layout.c',
        'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
    c_args : [no_override_init_args],
    gnu_symbol_visibility : 'hidden',
    dependencies : idep_nir_headers,
    build_by_default : false,
)

foreach major : ['5', '6']
test(
    'fd' + major + '_layout',
    executable(
        'fd' + major + '_layout',
        [
            'fd_layout_test.c',
            'fd' + major + '_layout_test.c',
            freedreno_xml_header_files,
        ],
        link_with: libfreedreno_layout,
        dependencies : idep_mesautil,
        include_directories: [inc_include,
inc_src,
inc_mapi,
inc_mesa,
inc_gallium,
inc_gallium_aux,
inc_freedreno],
},
suite : ['freedreno'],
)
endforeach
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1.1358 ply 3.4
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Metadata-Version: 1.0
Name: ply
Version: 3.4
Summary: Python Lex & Yacc
PLY is yet another implementation of lex and yacc for Python. Some notable features include the fact that its implemented entirely in Python and it uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking. It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 2

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* /opt/cola/permits/1161114094_1620486510.14/0/ply-3-4-1-tar-gz/ply-3.4/ply/lex.py
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PLY (Python Lex-Yacc) Version 3.4

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice
properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for ”real” programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

    import ply.lex as lex
    import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

    import lex
    import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============

PLY requires the use of Python 2.2 or greater. However, you should use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

A Google group for PLY can be found at

http://groups.google.com/group/ply-hack

Acknowledgments
=================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.2 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
=======
Here is a simple example showing a PLY implementation of a calculator with variables.

# calc.py
#
# A simple calculator with variables.
#
tokens = (  
    'NAME','NUMBER',  
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',  
    'LPAREN','RPAREN',  
    )

# Tokens  

t_PLUS = r'\+'  
t_MINUS = r'-'  
t_TIMES = r'\*'  
t_DIVIDE = r'/'  
t_EQUALS = r'='  
t_LPAREN = r'\('  
t_RPAREN = r'\)'  
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'd+'
    t.value = int(t.value)
    return t

# Ignored characters  
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer  
import ply.lex as lex  
lex.lex()

# Precedence rules for the arithmetic operators  
precedence = (  
    ('left','PLUS','MINUS'),  
    ('left','TIMES','DIVIDE'),  
    ('right','UMINUS'),  
    )

# dictionary of names (for storing variables)  
names = { }
def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "expression : expression PLUS expression
                 | expression MINUS expression
                 | expression TIMES expression
                 | expression DIVIDE expression"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'")

import ply.yacc as yacc
yacc.yacc()

while 1:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
    except EOFError:
Bug Reports and Patches
===============================================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

In addition there is a Google group for discussing PLY related issues at

http://groups.google.com/group/ply-hack

-- Dave

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1.1359 jersey 1.19.4
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That's all there is to it!
HAPROXY's license - 2006/06/15

Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core
system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

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1.1361 spring-beans 5.3.7

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting 
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands 
as a successor of a language called ABC. Guido remains Python's 
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for 
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) 
in Reston, Virginia where he released several versions of the 
software.

In May 2000, Guido and the Python core development team moved to 
BeOpen.com to form the BeOpen PythonLabs team. In October of the same 
year, the PythonLabs team moved to Digital Creations (now Zope 
Corporation, see http://www.zope.com). In 2001, the Python Software 
Foundation (PSF, see http://www.python.org/psf/) was formed, a 
on-profit organization created specifically to own Python-related 
Intellectual Property. Zope Corporation is a sponsoring member of 
the PSF.

All Python releases are Open Source (see http://www.opensource.org for 
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releases have also been GPL-compatible; the table below summarizes 
the various releases.

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History and License

History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org/ for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister

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The `mod:` `random` module includes code based on a download from
A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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L. Peter Deutsch  
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Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at  
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
------------------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard
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Select kqueue
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Mesa 3-D graphics library
Version: 7.0

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lang/usenglish/us_durz_cart.h
lang/usenglish/us_int_accent_cart.c
lang/usenglish/us_int_accent_cart.h
lang/usenglish/us_int_tone_cart.c
lang/usenglish/us_int_tone_cart.h
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config.guess
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src/speech/g721.c
src/speech/g72x.c
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lecker@#064buetterchen.de, Charles Proxy, Gunny Mills, Morgan Le Douget, Ben Whitaker, and Emilio Navarrete Lineros.

The following people and organisations donated financially to help with the release of 1.51:

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</ul>

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<li>Michael Lee <yfl@#064;mira.net> - initial RC6 implementation, MD2 implementation</li>
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<li>Michael M&252;hle <michael@604;mouling.de> - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>
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<li>Thomas Houtekier <Thomas.Houtekier#064;tectrade.net> - S/Mime testing and debugging. Interoperability with Biztalk.</li>
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<li>Jason Novotny <jdnovotny#064;jbl.gov> - initial work on the openssl PEM processing.</li>
<li>Joel Hickey <joel.hockey#064;qsipayments.com> - initial work on the openssl PEM processing.</li>
<li>John Steenbruggen <JohnS#064;geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
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- patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.
- patch to isParityAdjusted in DESKeySpec.
- help in isolating the JSSE/BC RSA key issue.
- initial implementation of the light weight Null block cipher.
- converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.
- adding public key decoding to PEMReader.
- findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.
- initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.
- Finding BigInteger loop problem in prime generation.
- patch to fix defect in DERBMPString.equals().
- patch to fix to zero length messages in SMIMEMessage.
- exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator.
- getNextUpdate patch for OCSP SingleResp.
- array fix in PGP PublicKeyEncSessionPacket.
- null pointer exception fix for JDK 1.3 CMS SignedData objects.
- patch to DER GeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.
- patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.
- addition of getSignatureType to PGPSignature.
- initial support for reading multiple rings from a PGP key file.
- patch for RSA PUBLIC KEY in PEMReader.
- initial parsing of multiple sequence entries in an X.500 Name.
- help with RipeMD320
Peter Sylvester <Peter.Sylvester&#064edelweb.fr> - improvements to the ASN.1 BasicConstraints object.

Doug <ummmm&#064myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes <fstaes&#064netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed content info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer <wdittmer&#064cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto <laperez&#064banxico.org.mx> - patch to use of BitString in X.500 name.

James Wright <James_Wright&#064harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford <jim&#064muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hausler <haeusler&#064ponton-consulting.de> - extra aliases for provider.

Sai Pullabhotla <psai&#064linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller <joseph&#064064digiweb.net.nz> - addition of ZeroBytePadding.

Lars <xyz&#064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.

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Petr Dukem <spudem&#064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva <filipe.silva&#064064wedoconsulting.com> - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar <alps&#064064linuxmail.org> - patch for class cast problem in PGPPublicKey,signatures().

Jay Gengelbach <jengelbach&#064064webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

Doug <doug&#064064tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy <mmundy1&#064064umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.

Tom Cargill <cargill&#064profcon.com> - spelling patch in provider.

Breitenstrom Christian <C.Breitenstrom&#064064t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko <zanotti&#064064cad.it> - patch to ordered equality test for X509Name.

Nicola Scendonis <nsendonis&#064064belpsi.it> - patch to add sorting to CertPath validation.

Ville Skytt&auml; <ville.skytta&#064064iki.fi> - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

Bruce Gordon <bruce.gordon&#064savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley <Miles.Whiteley&#064064savvis.net> - "223" fix for BCPGInputStream new packets.

Albert Moliner <amoliner&#064064evintia.com> - initial TSP implementation.

Carlos Lozano <carlos&#064064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo <javi&#064064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala <joni.hahkala&#064064cern.ch> - initial implementations of VOMS Attribute Certificate Validation,
We also wish to thank the <a href="http://www.eu-egee.org">EGEE project</a> for making the work available.

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- Sergey Bahtin <Sergey_Bahtin@#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3410.
- Atsuhiko Yamana <symnk@#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
- Nickolay Bolshakov <tyrex@#064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.
- Soren Hilmer <soren.hilmer@#064ietioetaotor.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
- Steve Mitchell <mitchell@#064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

- Dirk Eisner <D.Eisner@#064seeburger.de> - initial implementation of ISO 78164-4 padding.
- Julien Pasquier <julienpasquier@#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo <matartuso@#064libero.it> - sequence patch to ASN1Dump.
- Andrew Paterson <andrew.patonson@#064burnsecc.com> - patches to PGP tools, isRevoked method on PGPPublicKey.
- Vladimir Molotkov <vladimir.n.molotkov@#064intel.com> - extensive provider exception handling compliance testing.
- Florin Kollan <adlocflo@#064web.de> - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev <paulvas@#064gmail.com> - Initial GOST28147Mac implementation.
- Tom Pesman <tom@#064tnux.net> - addition of DES-ede encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk <lukasz.b.kowalczyk@#064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
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- David M. Lee <dmlee@#064crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon <md5@#064emboby.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- t2cung <t2cung@#064hotmail.com> - patch for out of bounds problem in getDecoderStream method.
- Chris Schultz <cschultz@#064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
- David M. Lee <dmlee@#064crossroads.com> - implementation assistance with streaming CMS classes.
- Joel Rees <rees@#064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau <francesc.sau@#064partners.netfocus.es> - micro fix for tsp Accuracy class.
- Larry Bugbee <bugbee@#064mac.com> - initial ECNR implementation.
- Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Patch for signature creation time override in OpenPGP.
- Initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDC 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
- Additional test data not covered by NIST.
- Large field OID sample test data. Missing key types in JDKKeyFactory.
- Addition of CRL writing to the PEMWriter class.
- Fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.
- Initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
- Patch to fix EOF read on SharedFileInputStream, support for F2m compression.
- Patch for <ctrl><m> only handling in CRLFOutputStream.
- Mods to GOST-3411 and MD2 to support ExtendedDigest.
- Initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.
- Initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.
- Fix to endianess in KDF2BytesGenerator, additional KDF2 tests.
- Initial implementation of NaccacheStern cipher.
- Fix to SignatureSubpacket critical bit setting.
- extra toString() support for ASN.1 library. Initial patch for large OID components.
- Performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.
- Performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.
- Support for tags > 30 in ASN.1 parsing.
validation classes.</li>
<li>Marius Schilder <mschilder@064gmail.com> - main set of test vectors for Bleichenbacher's forgery attack.</li>
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<li>Erik Tews <e_tews@064cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon <reikomusha@064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis <info@064frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim <rjoaquim@064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey <DStacey@allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers <list@064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies <juliusdavies@064gmail.com> - additional modes and algorithm support in PEMReader.</li>
<li>Matthias <g@064rtner.de> - GnuPG compatibility changes for PBFEFileProcessor.</li>
<li>Olga Kauflthler <olga.kauchler@064hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo <germano.rizzo@064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>Nuria Mar&iacute;a <numaa@064hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller <js@064tzi.de> - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet <mike@064samblanet.com> - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns <msjohns@064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.</li>
<li>Ramon Keller <ramon.keller@064gmail.com> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson <mark@064nbc.com> - correction to excluded DN in name constraints processing for PKIX processing.</li>
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<li>Julien Pasquier <julienpasquier@064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp <pknopp@064mtg.de> - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozdzi <gwozdziu@064pg.pl> - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski <bmmalkow@064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi <tal.yacobi@064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi <massimiliano.ziccardi@064gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes.</li>
<li>Andrey Pavlenko <andrey.a.pavlenko@064gmail.com> - security manager patch for PKCS1Encoding property check.</li>
<li>Mike StJohns <msjohns@064comcast.net> - updates to KeyPurposeId.</li>
<li>J Ross Nicoll <jrn@064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson <mavricknz@064yahoo.com> - patch to construtor for CRMF CertSequence.</li>
<li>Gabriele Contini <gcontini@064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
Roelof Naude <roelof.naude@#064epius.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck <peck@#064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay <lemaymd@#064lemaymd.com> - identified problem with EAX [#BJA-93].

Alex Dupre <ale@#064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCSS10CertificationRequest [#BJA-102]

Michael Schoene <michael@#064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga <ilarra@#064s21sec.com> fix to default partial packet generation in BCPGOutputStream.


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Henrik Andersson <henrik.andersson@#064gmail.com> addition of UniquIssuerID to certificate generation.

Cagdas Cirit <cagdascirit@#064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.

Harakiri <harakiri_23@#064yahoo.com> datahandler patch for attached parts in SMIME signatures.

Pedro Henriques <pmahenriques@#064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kinneringer <job@#064kinneringer.de> verbose mode for ASN1Dump, support for DERExternal.

Richard Farr <rfrarr.se@#064gmail.com> initial SRP-6a implementation.

Thomas Castiglione <castiglione@#064au.ibm.com> patch to encoding for CRMF OptionalValidity.

Elisabetta Romani <eromani@#064soge.it> patch for recognising multiple counter signatures.

Robin Lundgren <r737lundgren@#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec <smormegil@#064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener <antener_a@#064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat <hsrawat@#064yahoo.com> fix for BERConstructedOctetString.

Rolf Lindemann <linde mann@#064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov <alexart.home@#064gmail.com> name look up patch for GOST 2001 parameters.

Mike Lyons <mlyons@#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole <chris_h_cole@#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek <tom@#064stack.cz> added checking of Sender header to SignedMailValidator.

Michael <emfau@#064t-online.de> correction of field error in getResponse method in CertRepMessage.

Trevor Perrin <trevor@#064cryptography.com> addition of constant time equals to avoid possible timing...
attacks.</li>
<li>Markus Kiläring <markus&#064primekey.se> several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic <darionis&#064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith <msmith&#064cnbc.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio <andrea.zilio&#064gmail.com> fix for PEM password encryption of private keys.</li>
<li>Alex Birkett <alex&#064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant <waynedgrant&#064gmail.com> additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis <fncornelis&#064gmail.com> additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittemer <jan&#064dittemer.info> addHeader patch for SMIME generator.</li>
<li>Bob McGowan <bmcgown&#064btinternet.com> patch to support different content and mgf digests in PSS signing.</li>
<li>Ivo Matheis <i.matheis&#064seeburger.de> fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini <messs&#064gmail.com> patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf <alfilmalf&#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.</li>
<li>Alfonso Massa <alfonso.massa&#064insiel.it> contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo <gboccardo&#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu <arnis&#064gmail.com> patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociński <jsikociinski&#064gmail.com> addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejév <jhudolejev&#064gmail.com> JavaDoc fix to CMM SignedDataParser.</li>
<li>Liane Velten <liane.velten&#064gmail.com> fine tuning of code for DHParameters validation.</li>
<li>Atanas Krachev <akrachev&#064gmail.com> added support for revocation signatures in OpenPGP.</li>
<li>Michaël Laiking <mickaellaiing&#064gmail.com> initial cut of EAC classes.</li>
<li>Tim Buktu <tbuktu&#064hotmail.com> Initial implementation of NTRU signing and encryption.</li>
<li>Bernd <bernd&#064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak <stein.inge.morisbak&#064gmail.com> Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid <andreas.schmid&#064gmail.com> Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz <phil.steitz&#064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Petar Petrov <p.petrov&#064gmail.com> Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick <daniel.f.nwr&#064gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
<li>Andy Neilson <andy.neilson&#064quest.com> a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw <xiaoxj&#064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Elerieth <elerieth&#064gmail.com> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root <kenny&#064the-b.org> patch for issuerAltName, subjectAltName support in
X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes <maarten.bodewes@#064gmail.com> initial implementation of HKDF and NIST SP 800-108
MAC based KDF functions.</li>
<li>Philip Clay <phil_b@#064yahoo.com> Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom <bdc@#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes,
miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lid@borell#samuel@#064primekey.se> patch to add DSTU-4145 to
DefaultSignatureAlgorithmFinder</li>
<li>Sergio Demian Lerner <sergiolerner@#064certimix.com> pointing out isInfinity issue in ECDSASigner
signature verification.</li>
<li>Tim Whittington <Tim.Whittington@#064orionhealth.com> patch to remove extra init call in CMac, additional
of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset
processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced
round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and
CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher
methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup
after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on
EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenSDBCrypt, PGP API documentation and code
quality work.</li>
<li>Marcus Lundblad <marcus.lundblad@#064primekey.se> patch for working arnound JDK jarsigner TSP bug,
optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp
token generation.</li>
<li>Andrey Zhozhin <zhozhin@#064xrm.ru> patch for override of TSP SignerInfo attributes.</li>
<li>Segev Tiunov <segev@#064gmail.com> initial cut of DVCS classes.</li>
<li>Damian Kolasa <fatfreddy@#064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.</li>
<li>Ash Hughes <ashley.hughes@#064blueyonder.co.uk> patches for supporting
PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for
PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Daniel Hirscher <dev@#064daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM
files.</li>
<li>Daniele Ricci <daniele.athome@#064gmail.com> initial implementation of EC keys for OpenPGP and
RFC6637 support.</li>
<li>Matti Aarnio <matti.aarnio@methics.fi> tweaks to any build to remove dependence on shell scripts. Initial
SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.</li>
<li>Babak Najafi <bnajafi@#064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M@uull;@ler <eric.mueller@#064sage.de> additional standard algorithm name lookups in
JcaPEMKeyConverter.</li>
<li>Mathias Herberts <Mathias.Herberts@#064gmail.com> fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov <daniil.ivanov@#064gmail.com> addition of provider support for GOST HMAC
SecretKeyFactory.</li>
<li>Daniele Grasso <daniele.grasso@#064gmail.com> contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin <cindrhc@#064gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo
objects in provider classes.</li>
<li>Arnis Tartu <arnis@#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB <axel-vdb@#064riseup.net> initial implementation of Shacal2.</li>
<li>Roberto Tyley <<> further work on completing gradle build.</li>
<li>Waldemar Dick <wdick@#064devmue.de> code improvement in x500 ASN.1 package.</li>
<li>Sid Steward <sid.steward@pdflabs.com> code improvements to ASN1Boolean.
Alex Klyubin <klyubin@064google.com> AlgorithmParameters check for EC key agreement.

Jonathan Gillett <gsoc.student@064gmail.com> Initial support for block cipher IVs in IESEngine. IES MAC length check bug fix.

Andreas Reiter <andreas.reiter@064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller <kieran.miller@064gmail.com> initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli <ehli@064arago.de> Additional support for BSI plain ECDSA in the provider.

Daniel Heldt <Daniel.Heldt@064cryptovision.com> Initial support for encodable state message digests.

Robert Bushman <bouncycastle@064traxel.com> Clean up of DirectKeySignature example.

Maurice Aarts <aarts@064risecure.com> updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer <https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.

KB Sriram <mail_kb@064yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze <marco@064nightlabs.de> Reported verification bug in GenericSigner.

Martin Schaef <https://github.com/martinschaeuf> contributed a code-cleanup patch.

Lijun Liao <ljun.liao@064gmail.com> addition of getSignatureAlgorithmID to BasicOCSPResp.

dstutz <https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich <tobias.wich@064ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens <hauke@064hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman <dmz@064galois.com> Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitzka &lt;j.kapitzka@064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund <johan@064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.

nikosn <https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch <axel-vdb@064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins <derek@064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky <peto@064halicky.sk> Correction to notification/error message handling in SignedMailValidator.


Thomas Belot <thomas.belot+BC@064gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce <https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Bjouml;rn Kautler <https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Sch‹uml;mann <https://github.com/dschuermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael <MSKnete@064web.de> initial fix for bitStrength issue for OpenPGP EC keys.

Tobias Wagner <tobias.wagner@064n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro <sgiro@064google.com> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in
PBE.java, check for salt in PBEKeys that require it.</li>
<li>bschuette=https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot=https://github.com/dallotTazTag> Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen <j.w.janssen+bouncycastle@064lxxtreme.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer <kai.kramer@064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles <benoit.charles@064opentrust.com> Fix for IES data length check on decryption.</li>
<li>Niko <nfink95@064gmail.com> fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran=https://github.com/akwizgran> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff <Matthias.Edelhoff@064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Lukasz Deputat <lukasz.deputat@064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].</li>
<li>Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjecFactory to handle stream packets at start of iterated data.</li>
<li>Andréacette; Berenguel <https://github.com/berenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>
<li>Slawomir Jaranowski=https://github.com/slavekjaranowski> Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev=https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton <wglanton77@064gmail.com> Fixed bug in Poly1305 [#BIA-620].</li>
<li>jdvorak001=https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegele <jnaegele@grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre=https://github.com/andybons> NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.</li>
<li>The Intel Security Team <> analysis detecting the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.</li>
</ul>
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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1.1395 cryptsetup 2.0.3 3.el7

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1.1402 commons-lang3 3.11

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* https://github.com/eclipse-ee4j/glassfish-ha-api
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==============

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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link
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On all platforms, Nmap is normally linked with:
- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  http://www.tcpdump.org/
- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/
o LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
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o Various X.org libraries. These were built using MacPorts.
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Written by: Philip Hazel
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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jar/org/springframework/web/bind/EscapedErrors.java
* /opt/cola/permits/1136687503_1613859410.02/spring-web-4-3-14-release-sources-2-
jar/org/springframework/web/multipart/support/StandardServletMultipartResolver.java
* /opt/cola/permits/1136687503_1613859410.02/spring-web-4-3-14-release-sources-2-
jar/org/springframework/web/cors/CorsConfiguration.java
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jar/org/springframework/http/client/SimpleClientHttpRequestFactory.java
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jar/org/springframework/web/HttpRequestMethodNotSupportedException.java
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That's all there is to it!

1.1428 clang 6.0.1-2.el7
1.1428.1 Available under license :

; RUN: llc -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {;
  CHECK-LABEL: add256:
  CHECK:    # %bb.0:
  CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  CHECK-NEXT:  vpadd (%rsi), %ymm0, %ymm0
  CHECK-NEXT:  vpadd 32(%rsi), %ymm1, %ymm1
  CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
  CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
  CHECK-NEXT:  vzeroupper
  CHECK-NEXT:  retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {;
  CHECK-LABEL: add512:
  CHECK:    # %bb.0:
  CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
  CHECK-NEXT:  vpadd (%rsi), %zmm0, %zmm0
  CHECK-NEXT:  vmovdqa64 %zmm1, 32(%rdx)
  CHECK-NEXT:  vzeroupper
  CHECK-NEXT:  retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: avg_v64i8_256:
 ; CHECK:    # %bb.0:
 ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
 ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
 ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
 ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
 ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
 ; CHECK-NEXT: vmovdqu %ymm0, (%rax)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq

%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1> 
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1> 
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: avg_v64i8_512:
 ; CHECK:    # %bb.0:
 ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
 ; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
 ; CHECK-NEXT: vmovdqu64 %zmm1, (%rax)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq

%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1> 
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1> 
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {

; CHECK-LABEL: __Z9test_charPcS_i_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: vpmaddwd 16(%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpmovd [%xmm0], %xmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %index, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>[
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>

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%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
unde
%
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
unde
%
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
unde
%
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
unde
%
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32
unde
%
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z9test_charPcS_i_512:
  ; CHECK:  # %bb.0: # %entry
  ; CHECK-NEXT:  movl %edx, %eax
  ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:  xorl %ecx, %ecx
  ; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB9_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:  vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpadd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB9_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
eentry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 18 = add <32 x i32> %bin.rdx15, %rdx.shuf17
%rdx.shuf18 = shufflevector <32 x i32> %bin.rdx15, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT: vpaddd b+1024(%rax), %xmm2
; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: .LBB10_1
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm2, %ymm1
; CHECK-NEXT: vextracti128 %s1, %ymm0, %ymm1
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd %{.*+} %ymm1 = %ymm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm01,1,2,3
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
  %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
  %5 = zext <16 x i8> %wide.load1 to <16 x i32>
  %6 = sub nsw <16 x i32> %2, %5
  %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
  %8 = sub nsw <16 x i32> zeroinitializer, %6
  %9 = select <16 x i32> %7, <16 x i32> %6, <16 x i32> %8
  %10 = add nsw <16 x i32> %9, %vec.phi
  %index.next = add i64 %index, 4
  %11 = icmp eq i64 %index.next, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
  %lcssa = phi <16 x i32> [ %10, %vector.body ]
  %rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx = add <16 x i32> %lcssa, %rdx.shuf
  %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
  %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
  %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx4 = add <16 x i32> %bin.rdx4, %rdx.shuf4
  %12 = extractelement <16 x i32> %bin.rdx4, i32 0
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sad_16i8_512:
 ; CHECK: # %bb.0: # %entry
 ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC0
 ; CHECK-NEXT: .p2align 4, 0x90
 ; CHECK-NEXT: .LBB11_1: # %vector.body
 ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
 ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
 ; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
 ; CHECK-NEXT: # %bb.2: # %middle.block
 ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
 ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
 ; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
 ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
 ; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
 ; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
 ; CHECK-NEXT: vmovd %xmm0, %eax
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq

global @vector.body

vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
; CHECK-NEXT:     vpmovm2d %k0, %zmm0
; CHECK-NEXT:     vcvtq2ps %zmm0, %zmm0
; CHECK-NEXT:     vmovaps %zmm0, (%rdi)
; CHECK-NEXT:     vzeroupper
; CHECK-NEXT:     retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {  ; CHECK-LABEL: sbto16f64_256:
    ; CHECK:         # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtq2pd %xmm0, %ymm1
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    ; CHECK-NEXT:    vcvtq2pd %xmm0, %ymm0
    ; CHECK-NEXT:    vpmovm2d %k0, %ymm2
    ; CHECK-NEXT:    vcvtq2pd %xmm2, %ymm3
    ; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    ; CHECK-NEXT:    vcvtq2pd %xmm2, %ymm2
    ; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
    ; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
    ; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {  ; CHECK-LABEL: sbto16f64_512:
    ; CHECK:         # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:    vcvtq2pd %ymm0, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT:    vcvtq2pd %ymm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    ; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
}

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define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f32_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
  ; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
  ; CHECK-NEXT:  vpmovm2d %k0, %ymm1
  ; CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
  ; CHECK-NEXT:  vcvtdq2ps %ymm1, %ymm1
  ; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f32_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %zmm0, %k0
  ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %zmm0
  ; CHECK-NEXT:  vpsrld $31, %zmm0, %zmm0
  ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
  ; CHECK-NEXT:  vmovaps %zmm0, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %yrm0, %k0
  ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %yrm0
  ; CHECK-NEXT:  vpsrld $31, %yrm0, %yrm0
  ; CHECK-NEXT:  vcvtdq2ps %yrm0, %yrm0
  ; CHECK-NEXT:  vmovaps %yrm0, (%rdi)
  ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}

define void @ubto16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}
define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32toub_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 [%k1] {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 [%k1] {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 [%k1] {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32toub_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 [%k1] {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k0
    ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 [%k1] {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}
 define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
  CHECK-LABEL: mul256:
  CHECK: # %bb.0:
  CHECK-NEXT: vmovdqa (%rdi), %ymm0
  CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  CHECK-NEXT: vmovdqa (%rsi), %ymm2
  CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
                  ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13]
                ,ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm
                m0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
                  ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,14,15,15,24,24,25,25,26,26,26,27,27,28,28,29,29,30,30,31,31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm2 =
                  ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm1 =
                  ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13]
                ,ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm
                0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
                  ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13]
                ,ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm
                0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
                  ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,14,15,15,24,24,25,25,26,26,26,27,27,28,28,29,29,30,30,31,31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm2 =
                  ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm1 =
                  ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13]
                ,ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm
                0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
                  ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13]
                ,ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm
                0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
                  ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,14,15,15,24,24,25,25,26,26,26,27,27,28,28,29,29,30,30,31,31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm2 =
                  ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm1 =
                  ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13]
                ,ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm
                0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
                  ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13]
                ,ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm
                0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
  CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
                  ymm0[8,9,9,10,10,11,11,12,12,13,13,14,14,14,15,15,24,24,25,25,26,26,26,27,27,28,28,29,29,30,30,31,31]
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    CHECK-LABEL: mul512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm1
    ; CHECK-NEXT:    vpunpckhbw {{.*#+}} zmm2 =
    zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],zm
    ; CHECK-NEXT:    vpmullw %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    vmovdqa64 {{.*#+}} zmm3 =
    ; CHECK-NEXT:    vpandq %zmm3, %zmm2, %zmm2
    ; CHECK-NEXT:    vpunpckbhw {{.*#+}} zmm1 =
    zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5],zm
}
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Program Directory
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<none yet>

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-
define void @zext256() "min-legal-vector-width"="256" {  
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}

define void @zext512() "min-legal-vector-width"="512" {  
    ; AVX-LABEL: 'zext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
Cost Model: Found an estimated cost of 0 for instruction: ret void

Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>

Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>

Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>

Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>

Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>

Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>

Cost Model: Found an estimated cost of 0 for instruction: ret void

%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

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 */

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
  br i1 undef, label %while.end, label %while.body.lr.ph
while.body.lr.ph: ; preds = %entry
br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [ i32 1, label %sw.bb.i i32 2, label %sw.bb3.i ]

sw.bb.i: ; preds = %while.body
unreachable

sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

sw.bb.i17: ; preds = %.exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; RUN: opt %s -inline -S | FileCheck %s
define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
ret void
}
define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
define void @foo_i8() {
entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C2]], 22
; CHECK-NEXT: %8 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 2
  %2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 2
  %3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 2
  %4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 2
  %5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 2
  ret void
}
entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; ; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK        movaps 16(%rsp), %xmm1
define fp128 @TestFfabs(fp128 %a) {
    %res = call fp128 @llvm.ffabs.f128(fp128 %a)
    ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
    %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
    ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
    %mul = fneg fp128 %a, %a
    %res = fsub fp128 0xL00000000000000008000000000000000, %mul
    ret fp128 %res
}

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One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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1.1435 struts 1.2.9

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1.1436 vim 7.4.160 5.el7
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*uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06

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SUMMARY

*iccf* *ICCF*

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==============================================================================
Kibaale Children's Centre*Kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income
(if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.
The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form...
that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
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For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
- Postbank, account 4548774
  Swift code: INGB NL 2A
  IBAN: NL95 INGB 0004 5487 74
  under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
  Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
elsif exists("b:current_syntax")
  finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" contained
syn match psfNumber "\<\d\+\>" contained
syn match psfFloat "\<\d\+\>\(\.\<\d\+\>\)*" contained
syn match psfLongDate "\<\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline
syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend
oneline
syn region psfAttSpec matchgroup=psfAttrib
start="^\s*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|
supersedes\|superseded_by\)\s\+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 17211


" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
    if version < 508
        let did_psf_syntax_inits = 1
        command -nargs=+ HiLink hi link <args>
    else
        command -nargs=+ HiLink hi def link <args>
    endif

HiLink psfObject     Statement
HiLink psfAttrib     Type
HiLink psfQuotString String
HiLink psfObjTag     Identifier
HiLink psfAttAbbrev  PreProc
HiLink psfObjTags    Identifier
Long descriptions and copyrights confuse the syntax highlighting, so
force vim to backup at least 100 lines before the top visible line
looking for a sync location.

```vim
let b:current_syntax = "psf"
/*
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 */
```

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1.1437 gdb 7.6.1-114.el7
1.1437.1 Available under license:

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<signature of Ty Coon>, 1 April 1989
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#! /usr/bin/env python
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#
# This file is part of GDB.
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#
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"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

def get_update_list():
"""Return the list of files to update.
Assumes that the current working directory when called is the root
of the GDB source tree (NOT the gdb/ subdirectory!). The names of

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def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
    
    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.PIPE)
    update_out = p.communicate()[0]
    
    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('n'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.

    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
    if lineno > 50:
        return False
    return False
def main():
    
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files(update_list)

    if BY_HAND:
        print
        print \033[31mREMINDER: The following files must be updated by hand.\033[0m
        
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

    # Files which should not be modified, either because they are
    # generated, non-FSF, or otherwise special (e.g. license text,
    # or test cases which must be sensitive to line numbering).
    
    # Filenames are relative to the root directory.
    EXCLUDE_LIST = ( 'gdb/CONTRIBUTE', 'gdb/gnulib' )

    # Files which should not be modified, either because they are
    # generated, non-FSF, or otherwise special (e.g. license text,
    # or test cases which must be sensitive to line numbering).
    
    # Matches any file or directory name anywhere. Use with caution.
    # This is mostly for files that can be found in multiple directories.
    # Eg: We want all files named COPYING to be left untouched.

    EXCLUDE_ALL_LIST = ( "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c", }
"fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/doc.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gendef.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emu_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
)
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.c", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/pcc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{Less} of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is \texttt{Less} protective of the
users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@enumerate
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@end enumerate

@end iftex
@end ifinfo

@end page
@end appendixsubsec

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@end var

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@end smallexample
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

BEGIN{
    FS="\";
    print "/** Do not modify this file!!  " \\
    " -*- buffer-read-only: t -* vi" \\
    " set ro:";
    print " It is created automatically by copying.awk.";
    print " Modify copying.awk instead. <=== */";
    print ""
    print "#include \"defs.h\"
    print "#include \"command.h\"
    print "#include \"gdbcmd.h\"
    print ""
    print "static void show_copying_command (char *, int);"
    print ""
    print "static void show_warranty_command (char *, int);"
    print ""
    print "void _initialize_copying (void);"
    print ""
    print "static void";
    print "show_copying_command (char *ignore, int from_tty);"
    print "{";
}
 NR == 1="/^[ ]*15\. Disclaimer of Warranty\[ ]*$/{
    if ($0 ~ //)
    {
        printf " printf_filtered ("\n\"\n\"
       "
    }
    else if ($0 !~ /*[ ]*15\. Disclaimer of Warranty\[ ]*$/)
    {
        printf " printf_filtered ("\n\"";}
for (i = 1; i < NF; i++)
    printf "\%s\n", $i;
    printf "\%s\n\n", $NF;
}
}

*/
 [ ]*15. Disclaimer of Warranty*[ ]*$/{
    print ");
    printf ");
    print ";
    print "$static void"
    print "show_warranty_command (char *ignore, int from_tty)"
    print "{";
}

*/
 [ ]*15. Disclaimer of Warranty*[ ]*$/, */ [ ]*END OF TERMS AND CONDITIONS*[ ]*$/{
    fprintf ");
    for (i = 1; i < NF; i++)
        printf "\%s\n", $i;
    printf "\%s\n\n", $NF;
}
}

END{ print ");
    print ");
    print "void"
    print "__initialize_copying (void)"
    print ");
    print " add_cmd ("copying", no_set_class, show_copying_command,"
    print " _("Conditions for redistributing copies of GDB."),
    print " &showlist);"
    print " add_cmd ("warranty", no_set_class, show_warranty_command,"
    print " _("Various kinds of warranty you do not have."),
    print " &showlist);"
    print ") for old-timers, allow "info copying", etc. */
    print " add_info ("copying", show_copying_command,"
    print " _("Conditions for redistributing copies of GDB."));"
    print " add_info ("warranty", show_warranty_command,"
    print " _("Various kinds of warranty you do not have."));"
    print ");";
}

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1026431451_1591377870.73/0/oauth-provider-20100527-sources-jar/net/oauth/SimpleOAuthValidator.java
* /opt/ws_local/PERMITS_SQL/1026431451_1591377870.73/0/oauth-provider-20100527-sources.jar/net/oauth/OAuthValidator.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1026431451_1591377870.73/0/oauth-provider-20100527-sources.jar/net/oauth/server/HttpRequestMessage.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1026431451_1591377870.73/0/oauth-provider-20100527-sources.jar/net/oauth/server/OAuthServlet.java
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1.1441 axis2-adb 1.4

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1.1444 java-api 1.1

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1.1445 commons-daemon 1.2.2

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1.1453 httpcomponents-core 4.4.13
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1.1454 pytoml 0.1.14
1.1454.1 Available under license:
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Metadata-Version: 1.0
Name: pytoml
Version: 0.1.14
Summary: A parser for TOML-0.4.0
Home-page: https://github.com/avakar/pytoml
Author: Martin Vejnír
Author-email: avakar@ratatanek.cz
License: MIT
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1154644464_1618870918.72/0/pytoml-0.1.14-tar.gz/pytoml-0.1.14/PKG-INFO
* /opt/cola/permits/1154644464_1618870918.72/0/pytoml-0.1.14-tar.gz/pytoml-0.1.14/pytoml.egg-info/PKG-INFO

1.1455 geronimojmsspec 1.1.1
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1.1456 llvm 6.0.1-2.el7

1.1456.1 Available under license:

; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=ZEC12 -verify-machineinstrs | FileCheck %s

; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
  ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:                               ; preds = %CF246, %BB
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248

CF248:                               ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: add256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpadd (%rsi), %ymm0, %ymm0
  ; CHECK-NEXT:  vpadd 32(%rsi), %ymm1, %ymm1
  ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
  ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %d = load <16 x i32>, <16 x i32>* %a
  %e = load <16 x i32>, <16 x i32>* %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, <16 x i32>* %c
  ret void
}
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {  
; CHECK-LABEL: add512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
  %d = load <16 x i32>, %a
  %e = load <16 x i32>, %b
  %f = add <16 x i32> %d, %e
  store <16 x i32> %f, %c
ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {  
; CHECK-LABEL: avg_v64i8_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
  %1 = load <64 x i8>, %a
  %2 = load <64 x i8>, %b
  %3 = zext <64 x i8> %1 to <64 x i32>
  %4 = zext <64 x i8> %2 to <64 x i32>
  %5 = add nuw nsw <64 x i32> %3, %4
  %6 = add nuw nsw <64 x i32> %5, %4
  %7 = lshr <64 x i32> %6, %3, %4
  %8 = trunc <64 x i32> %7 to <64 x i8>
  store <64 x i8> %8, %a, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {  
; CHECK-LABEL: avg_v64i8_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
  %1 = load <64 x i8>, %a
  %2 = load <64 x i8>, %b
  %3 = add nuw nsw <64 x i32> %1, %2
  %4 = add nuw nsw <64 x i32> %3, %4
  %5 = lshr <64 x i32> %4, %3, %4
  %6 = trunc <64 x i32> %5 to <64 x i8>
  store <64 x i8> %6, %a, <64 x i8>* undef, align 4
ret void
}
define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
 CHECK-LABEL: pmaddwd_32_512:
 CHECK: # %bb.0:
 CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
 CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
 CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
 CHECK-NEXT: vzeroupper
 CHECK-NEXT: retq

 %A = load <32 x i16>, <32 x i16>* %APtr
 %B = load <32 x i16>, <32 x i16>* %BPtr
 %a = sext <32 x i16> %A to <32 x i32>
 %b = sext <32 x i16> %B to <32 x i32>
 %m = mul nsw <32 x i32> %a, %b
 %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30
 %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> %i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31
 %ret = add <16 x i32> %odd, %even
 store <16 x i32> %ret, <16 x i32>* %CPtr
 ret void

}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
 CHECK-LABEL: psubus_64i8_max_256:
 CHECK: # %bb.0:
 CHECK-NEXT: vmovdqa (%rdi), %ymm0
 CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
 CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
 CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
 CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
 CHECK-NEXT: vmovdqa %ymm0, (%rdx)
 CHECK-NEXT: vzeroupper
 CHECK-NEXT: retq

 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void

}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
 CHECK-LABEL: psubus_64i8_max_512:
 CHECK: # %bb.0:
 CHECK-NEXT: vmovdqa (%rdi), %ymm0
 CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
 CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
 CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
 CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
 CHECK-NEXT: vmovdqa %ymm0, (%rdx)
 CHECK-NEXT: vzeroupper
 CHECK-NEXT: retq

 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void

}

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; CHECK-LABEL: psbus_64i8_max_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}
define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
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; CHECK-NEX}
entry:
    %3 = zext i32 %2 to i64
    br label %vector.body

vector.body:
    %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
    %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
    %4 = getelementptr inbounds i8, i8* %i, i64 %index
    %5 = bitcast i8* %4 to <32 x i8>*
    %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
    %6 = sext <32 x i8> %wide.load to <32 x i32>
    %7 = getelementptr inbounds i8, i8* %i, i64 %index
    %8 = bitcast i8* %7 to <32 x i8>*
    %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
    %9 = sext <32 x i8> %wide.load14 to <32 x i32>
    %10 = mul nsw <32 x i32> %9, %6
    %11 = add nsw <32 x i32> %10, %vec.phi
    %index.next = add i64 %index, 32
    %12 = icmp eq i64 %index.next, %3
    br i1 %12, label %middle.block, label %vector.body

middle.block:
    %rdx.shuf1 = shufflevector <32 x i32> %11, %12 x i32> undef, <32 x i32> %i16, i32 17, i32 18, i32 19, i32 20, 
    i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, 
    i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 
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    unde
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: _Z9test_charPcS_i_512:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:    movl %edx, %eax
  ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:    xorl %ecx, %ecx
  ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT:    .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB9_1: # %vector.body
      ; =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
  ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
  ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
  ; CHECK-NEXT:    addq $32, %rcx
  ; CHECK-NEXT:    cmpq %rcx, %rax
  ; CHECK-NEXT:    jne .LBB9_1
      ; %bb.2: # %middle.block
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm0, %zmm0
  ; CHECK-NEXT:    vzeroupper
      ; %3 = zext i32 %2 to i64
  ; CHECK-NEXT:    retq
      ; entry:
  ; br label %vector.body

vector.body:
  ; %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  ; %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zero.initializer, %entry ]
  ; %4 = getelementptr inbounds i8, i8* %0, i64 %index
  ; %5 = bitcast i8* %4 to <32 x i8>*
  ; %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 2 8, i32 2 9, i32 3 0, i32 3 1, i32 1 2, i32 1 3, i32 1 4, i32 1 5, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 2 4, i32 2 5, i32 2 6, i32 2 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2 2, i32 2 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 2 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13

}@a = global [1024 x i8] zeroinitializer, align 16
}@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:
    ; CHECK:  # %bb.0: # %entry
    ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
}
; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vmovdqu a+1024(%rax), %ymm2
; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm2
; CHECK-NEXT:  vmovd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB10_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %ymm1
; CHECK-NEXT:  vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vmovd %ymm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
  br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12,
%vec.phi = phi <16 x i32> [ zeroinitialize, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
br i1 %11, label %middle.block, label %vector.body

middle.block:
%
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx4, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2pd %xmm1, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT: vcvtdq2pd %xmm1, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vpmovaps %ymm3, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

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define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) 'min-legal-vector-width'="512" {{
; CHECK-LABEL: sbto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm0
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) 'min-legal-vector-width'="256" {{
; CHECK-LABEL: ubto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvtq2ps %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:  vcvtq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) 'min-legal-vector-width'="512" {{
; CHECK-LABEL: ubto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm0
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvtq2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 64(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %ymm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" { 
    ; CHECK-LABEL: test_16f32toub_256: 
    ; CHECK:       # %bb.0: 
    ; CHECK-NEXT:   vcvttps2dq (%rdi), %ymm1 
    ; CHECK-NEXT:   vpslld $31, %ymm1, %ymm1 
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k0 
    ; CHECK-NEXT:   vcvttps2dq 32(%rdi), %ymm1 
    ; CHECK-NEXT:   vpslld $31, %ymm1, %ymm1 
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k1 
    ; CHECK-NEXT:   kunpckbw %k0, %k1, %k1 
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z} 
    ; CHECK-NEXT:   retq 
    %a = load <16 x float>, <16 x float>* %ptr 
    %mask = fptoui <16 x float> %a to <16 x i1> 
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer 
    ret <16 x i16> %select 
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" { 
    ; CHECK-LABEL: test_16f32toub_512: 
    ; CHECK:       # %bb.0: 
    ; CHECK-NEXT:   vcvttps2dq (%rdi), %zmm1 
    ; CHECK-NEXT:   vpslld $31, %zmm1, %zmm1 
    ; CHECK-NEXT:   vpmovd2m %zmm1, %k1 
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z} 
    ; CHECK-NEXT:   retq 
    %a = load <16 x float>, <16 x float>* %ptr 
    %mask = fptoui <16 x float> %a to <16 x i1> 
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer 
    ret <16 x i16> %select 
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" { 
    ; CHECK-LABEL: test_16f32tosb_256: 
    ; CHECK:       # %bb.0: 
    ; CHECK-NEXT:   vcvttps2dq (%rdi), %ymm1 
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k0 
    ; CHECK-NEXT:   kunpckbw %k0, %k1, %k1 
    ; CHECK-NEXT:   vmovdqu16 %ymm0, %ymm0 {%k1} {z} 
    ; CHECK-NEXT:   retq 
    %a = load <16 x float>, <16 x float>* %ptr 
    %mask = fptoui <16 x float> %a to <16 x i1> 
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer 
    ret <16 x i16> %select 
}
; CHECK-NEXT: vcvtps2dq 32(%rdi), %xmm1
; CHECK-NEXT: vpmovd2m %xmm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq

%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select

} define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtps2dq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] [z]
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpunpckhbw ['.##'] %ymm4 =
  ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13]
  ,ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm
  0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
; CHECK-NEXT: vpunpckhbw ['.##'] %ymm5 =
  ymm0[8],ymm9,ymm10,11,12,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT: vpunwld %ymm4, %ymm5, %ymm5
; CHECK-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT: vmovdqa ['.##'] %ymm5 =
; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT: vpunpcklbw ['.##'] %ymm2 =
  ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5]
  ,ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19]
  ,ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT: vpunpcklbw ['.##'] %ymm0 =
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  ; CHECK-LABEL:  mul512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
  ; CHECK-NEXT: vpunpckhbw {{.*#+}} %zmm2 =
  zmm1[8],zmm1[9],zmm1[10],zmm1[11],zmm1[12],zmm1[13],zmm1[14],zmm1[15],zmm1[16],zmm1[17],zmm1[18],zmm1[19],zmm1[20],zmm1[21],zmm1[22],zmm1[23],zmm1[24],zmm1[25],zmm1[26],zmm1[27],zmm1[28],zmm1[29],zmm1[30],zmm1[31] ; CHECK-NEXT: vmovdqa %zmm3, 32(%rdx)
  ; CHECK-NEXT: vmovdqa %zmm0, (%rdx)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
  ret void
}

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LLVM Release License
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University of Illinois at Urbana-Champaign

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NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py

RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX

RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256

RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'zext256'
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
  ;
  ; VEC512-LABEL: 'zext256'
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = zext <8 x i16> undef to <8 x i64>
  %B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() 
"min-legal-vector-width"="512" { 
; AVX-LABEL: 'zext512' 
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64> 
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64> 
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32> 
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32> 
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16> 
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void 
; 
; SKX256-LABEL: 'zext512' 
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64> 
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64> 
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32> 
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32> 
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16> 
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void 
; 
; VEC512-LABEL: 'zext512' 
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64> 
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64> 
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32> 
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32> 
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16> 
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void 
; 
%A = zext <8 x i16> undef to <8 x i64> 
%B = zext <8 x i32> undef to <8 x i64> 
%C = zext <16 x i8> undef to <16 x i32> 
%D = zext <16 x i16> undef to <16 x i32> 
%E = zext <32 x i8> undef to <32 x i16> 
ret void
define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; VEC512-LABEL: 'sext256'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    ; AVX-LABEL: 'sext512'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
$OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp $

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 */
The two loads based on %struct.0, loading two different data types, cause LSR to assume type "void" for the memory type. This would then cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
  br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

  sw.bb.i: ; preds = %while.body
  unreachable

  sw.bb3.i: ; preds = %while.body
  unreachable

  exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

  sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

  sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable
exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; CHECK-LABEL: test_sitofp_fixed:
  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK3_LO]]
  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:
  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1
define internal void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
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; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo
@goo = global i8* undef

define void @foo_i8() {
entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 32
define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874818 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874820 to i32*), align 4
  %6 = load volatile i32, i32* inttoptr (i32 805874822 to i32*), align 4
  %7 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %8 = load volatile i32, i32* inttoptr (i32 805874826 to i32*), align 4
  %9 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  %10 = load volatile i32, i32* inttoptr (i32 805874830 to i32*), align 4
  %11 = load volatile i32, i32* inttoptr (i32 805874832 to i32*), align 4
  ret void
}
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
}

; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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@enumerate
@item
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable `work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

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Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the `work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@end enumerate

@end subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work
      based on the Library, uncombined with any other library
      facilities. This must be distributed under the terms of the
      Sections above.

   b) Give prominent notice with the combined library of the fact
      that part of it is a work based on the Library, and explaining
      where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

*L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/S3RequesterChargedResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/transform/BucketNotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/FilterRule.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SSEAlgorithm.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetBucketReplicationConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/BucketReplicationConfiguration.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/transform/NotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/TransferCompletionFilter.java

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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/FilterRule.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SSEAlgorithm.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetBucketReplicationConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/BucketReplicationConfiguration.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/transform/NotificationConfigurationStaxUnmarshaller.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/TransferCompletionFilter.java
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 */

/**
* Synchronous client for accessing Amazon S3.
*
* <h1>Appendix: Amazon S3 client-side encryption meta information</h1>
*
* <h2>Introduction</h2>
*
* <p>
* This appendix summarizes the current crypto related meta information
* associated with an S3 object encrypted using SDK client-side encryption. In
* SDK's terminology, these meta information are classified as "user metadata".
* In general, the meta information is just a map of key/value pairs. Physically
* they are persisted either as metadata of the encrypted S3 object, or as a
* separate S3 object called an "instruction file" (which is just a JSON file in
* plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding,
* such as <code>AES/CBC/PKCS5Padding</code>, please refer to Oracle's <a href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html">Java Cryptography Architecture Standard Algorithm Name Documentation</a>
* for more details.
*
* <h2>S3 metadata vs instruction file</h2>
*
* <p>
* Note when a key/value pair is stored as "user metadata" as part of the S3
* metadata, the SDK always adds an additional prefix of <b>x-amz-meta-</b> to
* the key name. In contrast, the SDK doesn't add any prefix when the key names
* are stored in an instruction file. (The reason has to do with how the http
* headers are handled.)
*
* For example, <b>x-amz-key</b> would get stored as <b>x-amz-meta-x-amz-key</b>
* in S3 metadata. In contrast, <b>x-amz-key</b> would simply be stored as is
* (ie without the prefix) in an instruction file.
* All the keys described below are considered "user metadata" by the SDK.

* <h2>S3 v1 crypto meta information (supported by all SDK's)</h2>
* <p>
* For non-KMS client side encryption, this v1 crypto meta information is used
* to support the "Encryption Only" crypto mode (which involves the use of
* <code>AES/CBC/PKCS5Padding</code> for content encryption, and
* <code>AES/ECB</code> for encrypting the one-time randomly generated data
* key). For KMS client-side encryption, the v2 crypto meta information is used.
* <p>
* <table border=1>
* <tr align="left">
* <th>key</th><th>description</th>
* </tr>
* <tr>
* <td width="200"><b>x-amz-key</b></td>
* <td>Content encrypting key (cek) in encrypted form, base64 encoded. The cek
* is randomly generated per S3 object, and is always an AES 256-bit key. The
* corresponding cipher is always "AES/CBC/PKCS5Padding".</td>
* </tr>
* <tr>
* <td><b>x-amz-iv</b></td>
* <td>Randomly generated IV (per S3 object), base64 encoded</td>
* </tr>
* <tr>
* <td><b>x-amz-matdesc</b></td>
* <td>Customer provided material description in JSON (UTF8) format. Used to
* identify the client-side master key (ie used to encrypt/wrap the generated
* content encrypting key).</td>
* </tr>
* <tr>
* <td><b>x-amz-unencrypted-content-length</b></td>
* <td>Unencrypted content length (optional but should be specified whenever
* possible).</td>
* </tr>
* </table>

* <h2>S3 v2 crypto meta information (supported by the Java SDK)</h2>
* <p>
* This v2 crypto meta information is used to support both authenticated
* encryption (which involves the use of <code>AES/GCM/NoPadding</code> for
* content encryption, and key wrapping for the one-time randomly generated data
* key), and KMS client-side encryption (which can either be encryption-only or
* authenticated encryption.)
* <p>
* <table border=1>
<table>
<thead>
<tr>
<th>key</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>x-amz-key-v2</td>
<td>CEK in key wrapped form. This is necessary so that the S3 encryption client that doesn't recognize the v2 format will not mistakenly decrypt S3 object encrypted in v2 format.</td>
</tr>
<tr>
<td>x-amz-iv</td>
<td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
</tr>
<tr>
<td>x-amz-matdesc</td>
<td>Customer provided material description in JSON format. (Same as v1). Used to identify the client-side master key. For KMS client side encryption, the KMS Customer Master Key ID is stored as part of the material description, &lt;b&gt;x-amz-matdesc&lt;/b&gt;, under the key-name &lt;code&gt;&quot;kms_cmk_id&quot;&lt;/code&gt;.</td>
</tr>
<tr>
<td>x-amz-unencrypted-content-length</td>
<td>Unencrypted content length. (optional but should be specified whenever possible. Same as v1.)</td>
</tr>
<tr>
<td>x-amz-wrap-alg</td>
<td>Key wrapping algorithm used. Supported values: &lt;code&gt;&quot;AESWrap&quot;, &quot;RSA/ECB/OAEPWithSHA-256AndMGF1Padding&quot;, &quot;kms&quot;&lt;/code&gt; No standard key wrapping is used if this meta information is absent. Always set to &lt;b&gt;&quot;kms&quot;&lt;/b&gt; if KMS is used for client-side encryption.</td>
</tr>
<tr>
<td>x-amz-cek-alg</td>
<td>Content encryption algorithm used. Supported values: &lt;code&gt;&quot;AES/GCM/NoPadding&quot;, &quot;AES/CBC/PKCS5Padding&quot;&lt;/code&gt; Default to &lt;code&gt;&quot;AES/CBC/PKCS5Padding&quot;&lt;/code&gt; if this key is absent.</td>
</tr>
</tbody>
</table>
* <ul>
* <li>Only applicable if AEAD is in use. This meta information is absent otherwise, or if KMS is in use.</li>
* <li>Supported value: <code>"128"</code></li>
* </ul>
* Tag length (in bits) when AEAD is in use.
* <table>
* <tr>
* <td><b>x-amz-tag-len</b></td>
* <td>Tag length (in bits) when AEAD is in use. This meta information is absent otherwise, or if KMS is in use.</td>
* </tr>
* </table>

<h3>KMS Integration for client-side encryption</h3>

- All client-side KMS protected S3 objects are stored in v2 crypto meta information format. However, the key wrapping algorithm, <b>x-amz-wrap-alg</b> is always set to <code>"kms"</code>.
- The KMS Customer Master Key ID is currently stored as part of the material description, <b>x-amz-matdesc</b>, under the key-name <b>x-amz-cmk_id</b>.

**Sample S3 crypto meta information for KMS client-side encryption**

```bash
x-amz-meta-x-amz-key-v2:
CiAJ2qwpJnt4izuwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUjBLJRuauN6CPItfLLAAB+MHw6GCSqG5lb3DQEHBqBvMG0CQAgwaYJiKoZihvCNAXcBMB4GCWCGSAFlAwQBLjARBAYd0rzN3KHViWixDVCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVylC/PLchALvG1oVLnf86mzZJNPtxwMkKkDocVj3Z1zGjZTuFJ=OH
x-amz-key-v2:
CiAJ2qwpJnt4izuwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUjBLJRuauN6CPItfLLAAB+MHw6GCSqG5lb3DQEHBqBvMG0CQAgwaYJiKoZihvCNAXcBMB4GCWCGSAFlAwQBLjARBAYd0rzN3KHViWixDVCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVylC/PLchALvG1oVLnf86mzZJNPtxwMkKkDocVj3Z1zGjZTuFJ=OH
```

**CryptoMode: Authenticated Encryption**

```bash
x-amz-meta-x-amz-key-v2:
CiAJ2qwpJnt4izuwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUjBLJRuauN6CPItfLLAAB+MHw6GCSqG5lb3DQEHBqBvMG0CQAgwaYJiKoZihvCNAXcBMB4GCWCGSAFlAwQBLjARBAYd0rzN3KHViWixDVCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVylC/PLchALvG1oVLnf86mzZJNPtxwMkKkDocVj3Z1zGjZTuFJ=OH
```

---

Open Source Used In Cisco Unified Communication Manager 14SU1 MFG 17571
BLJRua8N6RCPiIAAAAB+MHwGCSqGSIb3DQEHBqBvMG0CAAQAwYJkOZIhveNAQCMB4BGWCGSAFlAwQBBljARBAYtFmYw4I6QmwcPK1ECARCAO1VzoM6Kx9DHyNMm/BEbbyle2vLA7LY79OkUsrQxgKxpNID9QaL/7928m1Djd0lOpHefjm89C
* x-amz-iv: VZBksyi6DhrUMye
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/GCM/NoPadding
* x-amz-wrap-alg: kms
* x-amz-matdesc: 
* x-amz-tag-len: 128
* </pre>
*
* <h2>S3 metadata of an instruction file</h2>
* <p>
* The following key is always included as part of the S3 metadata of the
* instruction file (which is just an S3 object). Since the SDK treats this key
* as "user metadata", the key name is always prefixed with <b>x-amz-meta-</b>
* when physically stored.
* </p>
* <p>
* <table border=1>
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td width="200"><b>x-amz-crypto-instr-file</b></td>
* <td>the presence of this key is used to indicate this S3 object is an
* instruction file (of an associated client-side encrypted S3 object). </td>
* </tr>
* </table>
* */

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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1- jar/com/amazonaws/services/s3/package-info.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/BucketAccelerateStatus.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetObjectAclRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/DeleteObjectTaggingResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetObjectTaggingRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/ObjectTagging.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetObjectTaggingResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SetObjectTaggingResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/Tag.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SetObjectTaggingRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/S3VersionResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/S3AccelerateUnsupported.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/S3RequesterChargedHeaderHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetObjectTaggingResult.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/transfer/MultipleFileDownload.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/transfer/internal/MultipleFileTransferMonitor.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/transfer/MultipleFileUpload.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/transfer/internal/AbstractTransfer.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/transfer/internal/TransferStateChangeListener.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/transfer/internal/MultipleFileUploadImpl.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/transfer/internal/MultipleFileDownloadImpl.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/transfer/internal/MultipleFileTransfer.java
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  jar/com/amazonaws/services/s3/internal/crypto/SecuredCEK.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/DigestValidationInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/CryptoMode.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/crypto/ContentCryptoMaterial.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/crypto/S3CryptoModule.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/PersistableUpload.java
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*/
/**
Interface for providing encryption materials.

Implementations are free to use any strategy for providing encryption materials, such as simply providing static material that doesn't change, or more complicated implementations, such as integrating with existing key management systems.

*/

Found in path(s):
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/model/EncryptionMaterialsProvider.java

No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/waiters/HeadObjectFunction.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/waiters/HeadBucketFunction.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/waiters/AmazonS3Waiters.java

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1471 cxf-rt-databinding-aegis 3.4.0

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Theodore Ts'o
23-June-2007
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and
Therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.1473 grep 2.20-3.el7
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use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.1494 at 3.1.13

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2. [2] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3] Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6] Michael Barone <michael.barone@lmco.com> GPSVME fixes
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- `/opt/cola/permits/1136045075_1613665083.17/0/jmespath-java-1-11-61-sources-1-jar/com/amazonaws/jmespath/JmesPathContainsFunction.java`
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* /opt/cola/permits/1136045075_1613665083.17/0/jmespath-java-1-11-61-sources-1-jar/com/amazonaws/jmespath/ObjectMapperSingleton.java
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* /opt/cola/permits/1136045075_1613665083.17/0/jmespath-java-1-11-61-sources-1-jar/com/amazonaws/jmespath/OpAnd.java
* /opt/cola/permits/1136045075_1613665083.17/0/jmespath-java-1-11-61-sources-1-jar/com/amazonaws/jmespath/OpOr.java

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**1.1505 axis2-json 1.7.9**

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1.1508 decorator 3.4.0

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    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,
    whereas direct importing would break in Python 3.X with a syntax error"""
    for line in open(fname):
        if line.startswith('__version__ '):
            return eval(line[13:])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
          version=VERSION,
          description='Better living through Python with decorators',
          long_description=open('README.txt').read(),
          author='Michele Simionato',
          author_email='michele.simionato@gmail.com',
          url='http://pypi.python.org/pypi/decorator',
          license='BSD License',
          package_dir = {'': 'src'},
          py_modules = ['decorator'],
          keywords="decorators generic utility",
          platforms=['All'],
          classifiers=['Development Status :: 5 - Production/Stable',
                      'Intended Audience :: Developers',
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          use_2to3=True,
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Decorator module
=================

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
:License: BSD license

Installation
------------

If you are lazy, just perform

```
$ easy_install decorator
```

which will install just the module on your system. Notice that Python 3 requires the `easy_install` version of the `distribute` project.

If you prefer to install the full distribution from source, including the documentation, download the tarball, unpack it and run

```
$ python setup.py install
```

in the main directory, possibly as superuser.

.. tarball: http://pypi.python.org/pypi/decorator
.. distribute: http://packages.python.org/distribute/

Testing
-------

For Python 2.5, 2.6, 2.7 run

```
$ python documentation.py
```

for Python 3.X run

```
$ python documentation3.py
```
You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
--------------

There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_

- `HTML version (Python 3)`_
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Repository
----------

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/README.txt

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Installation
-------------

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_project.

If you prefer to install the full distribution from source, including the documentation, download the tarball, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
--------

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.
You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
--------------

There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_

- `HTML version (Python 3)`_
- `PDF version (Python 3)`_


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Keywords: decorators generic utility
Platform: All
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1.1512 net-tools 2.10

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* /opt/cola/permits/1212115780_1633704357.6/0/jaxb-10-6-sources-7-jar/uk/org/retep/util/xml/jaxb/MarshallerFacade.java
1.1514 libcgroup 0.41-21.el7

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1.1515 json-path 2.0.0

1.1516 libpipeline 1.2.3 3.el7

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1.1520 jersey-guava 2.13

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  jar/jersey/repackaged/com/google/common/util/concurrent/Striped.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/EmptyImmutableSortedMap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/io/CharSink.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableList.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractSortedSetMultimap.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingBlockingDeque.java

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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/HashBiMap.java

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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/SortedMapDifference.java
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jar/jersey-repackaged/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/util/concurrent/Futures.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/util/concurrent/SimpleTimeLimiter.java

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* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/dynamic/scaffold/ClassWriterStrategy.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/bind/annotation/StubValue.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/bind/ElementMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation bytecode/collection/CollectionFactory.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources.jar/net/bytebuddy/implementation/auxiliary/TypeProxy.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources.jar/net/bytebuddy/description/annotation/AnnotationValue.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources.jar/net/bytebuddy/implementation/attribute/AnnotationRetention.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources.jar/net/bytebuddy/dynamic/scaffold/FieldRegistry.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources.jar/net/bytebuddy/dynamic/loading/ByteArrayClassLoader.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources.jar/net/bytebuddy/dynamic/scaffold/MethodGraph.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources.jar/net/bytebuddy/matcher/ClassLoaderParentMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources.jar/net/bytebuddy/matcher/LatentMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources.jar/net/bytebuddy/matcher/ArrayTypeMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/SuperMethodCall.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/bytecode/assign/reference/package-info.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/utility/OpenedClassReader.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/matcher/StringMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/bytecode/member/package-info.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/EqualsMethod.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/dynamic/package-info.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/matcher/ClassLoaderHierarchyMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/matcher/InheritedAnnotationMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/dynamic/loading/NoOpClassFileTransformer.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/description/NamedElement.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/description/annotation/AnnotationSource.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/matcher/NegatingMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/matcher/DeclaringFieldMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/utility/JavaModule.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/matcher/DescriptorMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/matcher/TypeSortMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/matcher/PrimitiveTypeMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/dynamic/scaffold/FieldLocator.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/description/type/PackageDescription.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/bind/ArgumentTypeResolver.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/agent/builder/ResettableClassFileTransformer.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/bytecode/ByteCodeAppender.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveBoxingDelegate.java
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* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/MethodVisitor.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/Symbol.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/signature/SignatureWriter.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/Handle.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/Frame.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/Type.java
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Manifest-Version: 1.0
Bundle-Description: Byte Buddy is a Java library for creating Java classes at run time. This artifact is a build of Byte Buddy with all ASM dependencies repackaged into its own name space.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: net.bytebuddy.byte-buddy
Built-By: rafael
Bnd-LastModified: 1544735061016
Bundle-ManifestVersion: 2
Tool: Bnd-3.5.0.201709291849
Main-Class: net.bytebuddy.build.Plugin$Engine$Default
Export-Package: net.bytebuddy;version="1.9.6",net.bytebuddy.agent.builder;version="1.9.6",net.bytebuddy.asm;version="1.9.6",net.bytebuddy.build;version="1.9.6",net.bytebuddy.description;version="1.9.6",net.bytebuddy.description.annotation;version="1.9.6",net.bytebuddy.description.enumeration;version="1.9.6",net.bytebuddy.description.field;version="1.9.6",net.bytebuddy.description.method;version="1.9.6",net.bytebuddy.description.modifier;version="1.9.6",net.bytebuddy.description.type;version="1.9.6",net.bytebuddy.dynamic;version="1.9.6",net.bytebuddy.dynamic.loading;version="1.9.6",net.bytebuddy.dynamic.scaffold;version="1.9.6",net.bytebuddy.dynamic.scaffold.inline;version="1.9.6",net.bytebuddy.dynamic.scaffold.subclass;version="1.9.6",net.bytebuddy.implementation;version="1.9.6",net.bytebuddy.implementation.attribute;version="1.9.6",net.bytebuddy.implementation.auxiliary;version="1.9.6",net.bytebuddy.implementation.bind;version="1.9.6",net.bytebuddy.implementation.bind.annotation;version="1.9.6",net.bytebuddy.implementation.bytecode;version="1.9.6",net.bytebuddy.implementation.bytecode.assign.primitive;version="1.9.6",net.bytebuddy.implementation.bytecode.assign.
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
*interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
*and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
*loss of link, and correctly re-enable PHY when link is
*re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
  * IDT always receives data into a small buffer, then large buffers
  * as needed. This means that data must always be copied to create
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
  * Fix is simple: make large buffers large enough to hold entire
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then
  * copy small buffer contents to head of large buffer.
  * Trick is to avoid fragmenting Linux, due to need for a lot of large
  * buffers. This is done by 2 things:
    * 1) skb->destructor / skb->atm.recycle_buffer
    * combined, allow nicstar_free_rx_skb to be called to
      * recycle large data buffers
    * 2) skb_clone of received buffers
  * See nicstar_free_rx_skb and linearize_buffer for implementation
  * details.

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* M. Welsh, 6 July 1996

* /

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That's all there is to it!
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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

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for maintaining v4l/dvb inter-tree dependencies

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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*/

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### 1.1560 commons-lang3 3.8.1

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employees and agents and employees and agents of its Affiliates to: (i)
maintain the Confidential Information in strict confidence; (ii) not
disclose the Confidential Information to a third party without the
Disclosing Party's prior written approval; and (iii) not, directly or
indirectly, use the Confidential Information for any purpose other than
for exercising its rights and fulfilling its responsibilities pursuant
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the Confidential Information of the other party, which measures shall
not be less than the measures taken by such party to protect its own
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"Confidential Information" shall not include information that (a) is or
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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file.
WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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reimplemented pthread_once with the same form as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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/* *                                                                        */
/* * Parts of this software have been adapted from the libpng package.     */
/* * Although this library supports all features from the PNG specification */
/* * (as MNG descends from it) it does not require the libpng package.     */
/* * It does require the zlib library and optionally the IJG jpeg library. * */
/* * and/or the "littlecms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* */
/* */
/* */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
/* * and or editing) * */
/* */
/* */
/* ***************************************************************************/

uic3: property `paletteBackgroundColor' for widget `title' of type `QLabel' is not supported. Line: 64 Column: 47
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=============  
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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves. See 1. above.

3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

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6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

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7. I want to sell a software package that uses these fonts: Can I do so?

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8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

   This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to
use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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1.1570 ehcache-core 3.8.1

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**1.1571 libgsm 1.0.13-11.el7**

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[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Ty Coon, President of Vice
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code. If you link a program with the library, you must provide
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer’s own use and reverse
engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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@appendixsubsec Preamble

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `work based on the library` and a `work that uses the library`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a \"work that uses the Library\". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a \"work that uses the Library\" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a \"work that uses the
library\". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a \"work that uses the Library\" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a `work that uses the Library` with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Portions of this software was originally based on the following:

- voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the Apache Software Foundation and was originally developed at Hewlett Packard Company.

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include/GL/glxext.h
include/GL/wglxext.h :

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ffjson
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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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* 
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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- IDEA is no longer included, its use is deprecated  
- DES is now external, in the OpenSSL library  
- GMP is no longer used, and instead we call BN code from OpenSSL  
- Zlib is now external, in a library  
- The make-ssh-known-hosts script is no longer included  
- TSS has been removed  
- MD5 is now external, in the OpenSSL library  
- RC4 support has been replaced with ARC4 support from OpenSSL  
- Blowfish is now external, in the OpenSSL library

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   * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT 
* Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT 
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/*
	$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

/*

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*
*/

#endif /* _BSD_WAITPID_H */
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID

/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)	(*(int*)&(w))	/* convert union wait to int */
#define WIFEXITED(w)	(!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)	((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)	(!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w)	(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)	(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG	0x80
#define WCOREDUMP(w) 	((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1))
#define WTERMSIG(w) ((int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1))
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLRERR0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRHUP0x0010
#define POLLRVAL0x0020
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNDMORM
#define POLLWRNORM POLLOUT
#define POLLRDNDAND0x0080
#define POLLWRDAND0x0100

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#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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 */

#ifndef HAVE_SETRESGID
int	setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int	setresuid(uid_t, uid_t, uid_t);
#endif
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diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode 2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.82017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
 .Op Fl p Ar whitelisted_requests
 .Op Fl u Ar umask
+.Op Fl m Ar force_file_perms
 .Ek
 .Nm
 .Fl Q Ar protocol_feature
@@ -138,6 +139,10 @@ Sets an explicit umask 2
 to be applied to newly-created files and directories, instead of the user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead of the default or client requested mode. Numeric values include: +777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
 .El
 .Pp
 On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode 2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;
/* Version of client */
static u_int version;
/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
 /* SSH2_FXP_INIT received */
static int init_done;

ATTRIB a;
char *name;
int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+mode_t old_umask = 0;
if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
    (r = sshbuf_get_u32(iqueue, &pflags)) != 0 ||/* portable flags */
@@ -679,6 +683,10 @@ process_open(u_int32_t id)
    debug3("request \%u: open flags \%d", id, pflags);
flags = flags_from_portable(pflags);
mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+if (permforce == 1) { /* Force perm if -m is set */
+mode = permforcemode;
+old_umask = umask(0); /* so umask does not interfere */
+
} logit("open\"%s\" flags %s mode 0%o",
    name, string_from_portable(pflags), mode);
if (readonly &&
@@ -709,6 +718,8 @@ process_open(u_int32_t id)
} }
}
+if (permforce == 1)
+(void) umask(old_umask); /* restore umask to something sane */
if (status != SSH2_FX_OK)
send_status(id, status);
free(name);
@@ -1490,7 +1501,7 @@ sftp_server_usage(void)
fprintf(stderr,
    "usage: %s [-ehR] [-d start_directory] [-f log_facility] 
    "[-l log_level] [n][-P blacklisted_requests] 
    - "[-p whitelisted_requests] [-u umask]n"
    + "[-p whitelisted_requests] [-u umask] [-m force_file_perms]n"
    " %s -Q protocol_feature\n",
    __progname, __progname);
exit(1);
@@ -1516,7 +1527,7 @@ sftp_server_main(int argc, char **argv,
pw = pwcopy(user_pw);
while (!skipargs && (ch = getopt(argc, argv,
-    "d:f:l:p:Q:u:cehR") != -1) { 
+    "d:f:l:p:Q:u:m:cehR") != -1) { 
switch (ch) {
    case 'Q':
    if (strcasecmp(optarg, "requests") != 0) {
@@ -1576,6 +1587,15 @@ sftp_server_main(int argc, char **argv,
    fatal("Invalid umask \"%s\"", optarg);
    (void)umask((mode_t)mask);
    break;
+case 'm':
        /* Force permissions on file received via sftp */
        permforce = 1;
        +permforcemode = strtol(optarg, &cp, 8);
        +if (permforcemode < 0 || permforcemode > 0777 ||
        +    *cp != '0' || (permforcemode == 0 &&
        +    errno != 0))
        +fatal("Invalid file mode \"%s\"", optarg);
1.1593 expat 2.1.0 11.el7

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1.1594 pam 0.82.2

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* /opt/cola/permits/1135888101_1613626209.41/0/spring-beans-5-2-8-release-sources-1-
jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
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* /opt/cola/permits/1135888101_1613626209.41/0/spring-beans-5-2-8-release-sources-1-
  jar/org/springframework/beans/propertyeditors/URIEditor.java
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  jar/org/springframework/beans/PropertyAccessorFactory.java
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  jar/org/springframework/beans/factory/config/NamedBeanHolder.java
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  jar/org/springframework/beans/factory/annotation/Required.java
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* /opt/cola/permits/1135888101_1613626209.41/0/spring-beans-5-2-8-release-sources-1-jar/org/springframework/beans/NotReadablePropertyException.java
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=

LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%..o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%..o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed '"$("\$"\n).o: \n*:\\$\n" > $@; \n[ -s $@ ] \nrm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed '"$("\$"\n).o: \n*:\\$\n" > $@; \n[ -s $@ ] \nrm -f $@'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup
1.1608 libdrm 2.4.97-2.el7

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1.1609 jstl 1.2

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1.1610 opus 1.0.2 6.el7

1.1611 libusb 1.0.0

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1.1612 shared-mime-info 1.8

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to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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when it starts in an interactive mode:

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under certain conditions; type 'show c' for details.

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parts of the General Public License. Of course, the commands you use may
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.1619 cppformat 2.0.0

1.1619.1 Available under license:

A. HISTORY OF THE SOFTWARE
===============================================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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1.1621 util-linux 2.23.2 63.el7
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ef9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1beb87248e05d6e62d749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
Device Boot  Start  End   Blocks  Id  System
__ts_dev__1   2048  4095   1024   83  Linux
__ts_dev__2   4096  20479  8192   a5  FreeBSD

-------------------

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start  end  size     fsname [fsname bsiz e cpg]
c:  4096  20479  16384   unused        0     0     0
d:  0  16064  16065   unused        0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start  end  size     fsname [fsname bsiz e cpg]
a:  4096  6144  2049     4.2BSD          0     0     0
c:  4096  20479  16384   unused        0     0

d:  0  16064  16065   unused        0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

<table>
<thead>
<tr>
<th>Disk</th>
<th>Label</th>
<th>Size</th>
<th>Type</th>
<th>Letter</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>unused</td>
<td>5</td>
<td>4.1BSD</td>
<td>d</td>
<td>boot</td>
</tr>
<tr>
<td>1</td>
<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
<td>a</td>
<td>unknown</td>
</tr>
<tr>
<td>2</td>
<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b HPFS</td>
<td>f HFS</td>
</tr>
<tr>
<td>3</td>
<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
<td>c ISO-9660</td>
<td>10 AdvFS</td>
</tr>
<tr>
<td>4</td>
<td>System V</td>
<td>9</td>
<td>4.4LFS</td>
<td>10 AdvFS</td>
<td></td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):

1.1622 unbound 1.6.6-5.el7

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1.1624 aopalliance-repackaged 2.3.0-b10
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1.1625 java-api 2.1
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| Facebook Development Platform Java Client                   |
+-------------------------------------------------------------+
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*/
Grant permission to an external app to make API calls on behalf of the current application.

* @param apiKey
  * the API-key of the application to grant permission to.
* @param methods
  * the API methods to allow the other application to call. If the set is empty or null, permission is granted for all API methods.

* @return true if the operation succeeds false otherwise
*/
/**
* Check to see what permissions have been granted to current app by the specified external application.
* *
* For example:
* Application A grants permission on users.getInfo to Application B. Application B can then call permissions_checkAvailableApiAccess(A) and will receive
  * "users.getInfo" as a result.
* @param apiKey
*   the API key of the application to check for permissions from.
* @return a list of all API methods that the specified application has permission to use.
*/

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* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources.jar/com/google/code/facebookapi/IFacebookRestClient.java
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 * $Id: bigtribetemplates.xml 5524 2006-04-06 09:40:52 -0700 (Thu, 06 Apr 2006) greening $
 */

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* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/IFacebookMethod.java
* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/FacebookMethod.java
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* /opt/cola/permits/1126576570_1611717741.51/0/facebook-java-api-2-1-0-sources-jar/com/google/code/facebookapi/MarketplaceListing.java
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* /opt/cola/permits/1175648651_1634532518.39/0/camunda-spin-dataformat-json-jackson-1-5-6-sources-
  jar/org/camunda/spin/impl/json/jackson/format/AbstractJacksonJsonTypeDetector.java
* /opt/cola/permits/1175648651_1634532518.39/0/camunda-spin-dataformat-json-jackson-1-5-6-sources-
  jar/org/camunda/spin/impl/json/jackson/format/JacksonJsonDataFormatProvider.java
* /opt/cola/permits/1175648651_1634532518.39/0/camunda-spin-dataformat-json-jackson-1-5-6-sources-
  jar/org/camunda/spin/impl/json/jackson/format/JacksonJsonDataFormat.java
* /opt/cola/permits/1175648651_1634532518.39/0/camunda-spin-dataformat-json-jackson-1-5-6-sources-
  jar/org/camunda/spin/impl/json/jackson/format/JacksonJsonDataFormatWriter.java
* /opt/cola/permits/1175648651_1634532518.39/0/camunda-spin-dataformat-json-jackson-1-5-6-sources-
  jar/org/camunda/spin/impl/json/jackson/format/JacksonJsonDataFormatMapper.java
* /opt/cola/permits/1175648651_1634532518.39/0/camunda-spin-dataformat-json-jackson-1-5-6-sources-
  jar/org/camunda/spin/impl/json/jackson/JacksonJsonLogger.java
* /opt/cola/permits/1175648651_1634532518.39/0/camunda-spin-dataformat-json-jackson-1-5-6-sources-
  jar/org/camunda/spin/impl/json/jackson/JacksonJsonNode.java
* /opt/cola/permits/1175648651_1634532518.39/0/camunda-spin-dataformat-json-jackson-1-5-6-sources-
  jar/org/camunda/spin/impl/json/jackson/format/DefaultJacksonJsonTypeDetector.java

1.1627 lua 5.2.2
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1.1628 perl 5.16.3 295.el7

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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/ssl/PemEncoded.java
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  jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/ssl/PemValue.java
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  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
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  jar/io/netty/handler/ssl/PemPrivateKey.java
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  jar/io/netty/handler/flush/package-info.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
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  jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/ssl/Java8SslUtils.java
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  jar/io/netty/handler/ssl/PemX509Certificate.java
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  jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
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  jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ipfilter/package-info.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/OpenSslClientContext.java
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/OpenSslEngine.java
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/OpenSslEngine.java
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/OpenSslServerContext.java
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*/opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
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  jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
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  jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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  jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-jar/io/netty/handler/ssl/Java9SslUtils.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-jar/io/netty/handler/ssl/Java9SslEngine.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-jar/io/netty/handler/ssl/SslCompletionEvent.java
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
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of these things:

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machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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1.1639 pango 1.42.4-3.el7

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b) You must cause the files modified to carry prominent notices
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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* /opt/cola/permits/1111409344_1606911206.91/0/opensaml-xacml-saml-api-3-4-5-sources-
  jar/org/opensaml/xacml/profile/saml/XACMLPolicyStatementType.java
* /opt/cola/permits/1111409344_1606911206.91/0/opensaml-xacml-saml-api-3-4-5-sources-
  jar/org/opensaml/xacml/profile/saml/XACMLAuthzDecisionStatementType.java
* /opt/cola/permits/1111409344_1606911206.91/0/opensaml-xacml-saml-api-3-4-5-sources-
  jar/org/opensaml/xacml/profile/saml/XACMLAuthzDecisionQueryType.java
* /opt/cola/permits/1111409344_1606911206.91/0/opensaml-xacml-saml-api-3-4-5-sources-
  jar/org/opensaml/xacml/profile/saml/ReferencedPoliciesType.java
* /opt/cola/permits/1111409344_1606911206.91/0/opensaml-xacml-saml-api-3-4-5-sources-jar/org/opensaml/xacml/profile/saml/SAMLProfileConstants.java

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