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Text Part Number: 78EE117C99-1083526361
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1.3 python2-pika-pool 0.1.3 3.1.el7ost

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1.6 python-pint 0.6 5.1.el7ost

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1.7 python2-dateutil 2.6.1 1.el7ost
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1.10 xinetd 2.3.15 13.el7

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1.12 oauthlib 3.0.1

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1.13 python2-magnumclient 2.9.1 1.el7ost

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1.21 quantile 0.2.1

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1.32 yaml v2.2.2 51d6538

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1.34 alpinelinux-aports 3.5.2

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fix issues with fortify-headers and the way openssh handles the needed BSD compatible realpath(3).

unconditionally use the provided realpath() as otherwise cross-builds would try to use musl realpath() which is posix compliant and not
working to openssh expectations.

```
diff -ru openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h openssh-7.2p2/openbsd-compat/openbsd-compat.h
--- openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h 2016-03-09 20:04:48.000000000 +0200
@@ -68,17 +68,7 @@
    void *reallocarray(void *, size_t, size_t);
    #endif
    
-    #if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
-    /*
-     * glibc's FORTIFY_SOURCE can redefine this and prevent us picking up the
-     * compat version.
-     */
-    
-    #ifdef BROKEN_REALPATH
-    #define realpath(x, y) _ssh_compat_realpath(x, y)
-    #endif
-    
-    char *realpath(const char *path, char *resolved);
-    #endif
+    char *ssh_realpath(const char *path, char *resolved);

    #ifndef HAVE_RRESVPORT_AF
    int rresvport_af(int *alport, sa_family_t af);
    
    #endif
```

```
diff -ru openssh-7.2p2.orig/sftp-server.c openssh-7.2p2/sftp-server.c
--- openssh-7.2p2.orig/sftp-server.c 2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/sftp-server.c 2016-07-18 13:33:45.420721690 +0300
@@ -31,7 +31,7 @@
       
 #ifndef HAVE_RRESVPORT_AF
     
-    #if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
+    #if 1
       
       #include "includes.h"
-    
+    
       -#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
+    +#if 1

       #include <sys/types.h>
       #include <sys/param.h>
@@ -58,7 +58,7 @@
       * in which case the path which caused trouble is left in (resolved).
       */
       char *
-      realpath(const char *path, char *resolved)
+      ssh_realpath(const char *path, char *resolved)
       {
         struct stat sb;
         char *p, *q, *s;
```
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# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
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pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/_pkgreal-$pkgver.tar.gz"

_buildddir="$srcdir/_pkgreal-$pkgver"

prepare() {
    cd "$_buildddir"
```
export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"

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pkgname=py-flake8-copyright
__pkgname=flake8-copyright
pkgver=0.1
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="python2 flake8"
depends_dev=""
makedepends="python2-dev py-setuptools"
install=""
subpackages=""
source="https://files.pythonhosted.org/packages/source/${__pkgname:0:1}/${__pkgname}/${__pkgname}-${pkgver}.tar.gz"
__builddir="$srcdir}/${__pkgname}-${pkgver}
prepare() {
  local i
cd "$__builddir"
for i in $source; do
case $i in
  *.patch) msg $i; patch -p1 -i "$srcdir"/$i || return 1;;
esac
done
}

build() {
  cd "$__builddir"
  python2 setup.py build || return 1
}

package() {
  cd "$__builddir"
  python2 setup.py install --prefix=/usr --root="$pkgdir" || return 1
```
md5sums="8fab17d27f0b417c44ea0bebf579d71b flake8-copyright-0.1.tar.gz"
sha256sums="34cba5411ef3f677b7a8d7b063493c9ed5af9985b2da77807be94bf9e65823b flake8-copyright-0.1.tar.gz"
sha512sums="c1ef4b8ad4bd422b629ec481074256d33ca4c8e8f10c7a7da6619b01c18ccf6f8a86bf6c7ce4d73f29a93e0f23797c1a356abcfc242e9f556b979b75e3a8bfe46 flake8-copyright-0.1.tar.gz"
--- a/expected/plluatest.out
+++ b/expected/plluatest.out
@@ -232,8 +232,8 @@
1 | name  | data
(1 row)
+SET client_min_messages = warning;
CREATE TABLE tree (id INT PRIMARY KEY, lchild INT, rchild INT);
-NOTICE:  CREATE TABLE / PRIMARY KEY will create implicit index "tree_pkey" for table "tree"
CREATE FUNCTION filltree (t text, n int) RETURNS void AS $$
local p = server.prepare("insert into " .. t .. " values($1, $2, $3)",
{"int4", "int4", "int4"})
--- a/sql/plluatest.sql
+++ b/sql/plluatest.sql
@@ -160,6 +160,7 @@
SELECT * FROM get_rows('name');
+SET client_min_messages = warning;
CREATE TABLE tree (id INT PRIMARY KEY, lchild INT, rchild INT);
CREATE FUNCTION filltree (t text, n int) RETURNS void AS $$
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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>

pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"

_prepbuilddir="/srcdir"/libart_lgpl-$pkgver

prepare() {
    cd "$_builddir"
    update_config_sub || return 1
}

build() {
    cd "$_builddir"
    ./configure
    --build=$CBUILD
    --host=$CHOST
    --prefix=/usr
    || return 1
    make || return 1
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/bsd-resource/"
arch="all"
license="GPL PerlArtistic"
cpanmakedepends=""
depends="" cpandepends=cpanmakedepends"
makedepends="perl-dev $cpandepends"
subpackages="pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$pkgreal-$pkgver"

prepare() {
  cd "$_builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
  cd "$_builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  make && make test || return 1
}

package() {
  cd "$_builddir"
  make DESTDIR="pkgdir" install || return 1
  find "pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd008d049f6ff4a0f1f161957e289e8de45af5f79e851e2e855e06  BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276cc2b40a429fa430  BSD-Resource-1.2909.tar.gz"

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1.35 sqlite 3.16.2-5+deb9u1.debian

1.35.1 Available under license :
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: sqlite3
Source: http://www.sqlite.org/cgi/src/dir?ci=trunk

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Files: debian/*
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1.36 tabulate 0.7.7
1.36.1 Available under license:
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1.37 python-dogpile-core 0.4.1 6.1.el7ost
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1.38 perl-threads-shared 1.43 6.el7

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The End

1.39 binutils 2.27 34.base.el7_6.3

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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
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
1.46 idna 2.6

1.46.1 Available under license:

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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.

```python
import io, sys
from setuptools import setup

def main():

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

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

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

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1019310281_1591906278.82/0/idna-2-6-tar-gz/idna-2.6/setup.py

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1.47 python-xstatic-angular-gettext 2.3.8.0
1.el7ost

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1.48 nettle 2.7.1 8.el7
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1.49 urllib3 1.25.1

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

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

* p.dobrogost <http://code.google.com/u/@WBRSR1BZDhBFXQB6/>  
  * Code review, PEP8 compliance, benchmark fix

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

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

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

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

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

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

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite
* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

* Boris Figovskiy <boris.figovskiy@ravellosystems.com>
  * Allowed to skip SSL hostname verification

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Evgeny Kapun <abacababadabaca@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 bug fix

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urlib2.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

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

1.50 python-simplejson 3.5.3 6.el7ost

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-------------------------------------------------------------------------
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Cc: Julian Cummings <cummings AT cacr DOT caltech DOT edu>, Todd Veldhuizen
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Todd

On 21/03/2008, Jarrod Millman <millman AT berkeley DOT edu> wrote:
> Julian and Todd,
> 
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> that it can be released with a BSD license within SciPy. Currently,
> the Fedora project is classifying the entire SciPy package as GPLed
> because one package, scipy.weave, uses blitz. (the rest of the code is
> all BSD). We were about to launch into the re-factoring step to make
> the blitz portion optional, when it occurred to us to just ask you
> guys first. :-)
> 
> Blitz is included in the scipy.weave package which allows you to
inline C/C++ within Python. Users have the option of converting NumPy arrays to blitz arrays for use in C++. There is also a function (weave.blitz) that will automatically convert NumPy expressions in Python to Blitz expressions in C++. Often this shows notable speed improvements. Our re-factoring step will require us to split the blitz code into the blitz and non-blitz portions. This is a bit of a pain, and ends up with more installation issues than if we didn't do it.

Thanks for your consideration,

--

Jarrod Millman
Computational Infrastructure for Research Labs
10 Giannini Hall, UC Berkeley
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------m dongarra Fri Jun 21 17:58:49 EDT 1991
Subject: amos

As I install the new dependency resolution mechanism for netlib, I'm recompiling lots of libraries, sometimes for the first time in years. The amos collection is causing me trouble because it defines a function zabs() which the SGI compiler believes is an intrinsic (with different arguments). For expediency, I'm just dropping the "-l" prefix from amos in /netlib/admin/LIBS.

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David K. Kahaner
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National Bureau of Standards
Washington DC 20234

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1.57 camptocamp-grafana-prometheus-alertmanager-datasource 0.0.7

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1.60 python-rcssmin 1.0.6 3.el7ost

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1.62 yum-rhn-plugin 2.0.1 10.el7

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1.72 python2-neutronclient 6.7.0 1.el7ost

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```
======  Heading 0 (reserved for the title in a document)
-------  Heading 1
~~~~~~~  Heading 2
+++++++  Heading 3
'''''''  Heading 4

(Avoid deeper levels because they do not render well.)
```

Contributor Guide
In the Contributor Guide, you will find information on neutronclient’s lower level programming details or APIs as well as the transition to OpenStack client.

.. toctree::
:maxdepth: 2

client_command_extensions
cli_option_guideline
transition_to_osc

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======== Heading 0 (reserved for the title in a document)
------- Heading 1
~~~~~~~ Heading 2
+++++++ Heading 3
~~~~~ Heading 4
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Transition to OpenStack Client

This document details the transition roadmap for moving the neutron client's OpenStack Networking API support, both the Python library and the `neutron` command-line interface (CLI), to the `OpenStack Client (OSC) <https://github.com/openstack/python-openstackclient>`_, and the `OpenStack Python SDK <https://github.com/openstack/python-openstacksdk>`_.

This transition is being guided by the `Deprecate individual CLIs in favour of OSC <https://review.openstack.org/#/c/243348/>`_, OpenStack spec. See the `Neutron RFE <https://bugs.launchpad.net/neutron/+bug/1521291>`_, `OSC neutron support etherpad <https://etherpad.openstack.org/p/osc-neutron-support>`_ and details below for the overall progress of this transition.
Overview
--------

This transition will result in the neutron client's `neutron` CLI being deprecated and then eventually removed. The `neutron` CLI will be replaced by OSC's networking support available via the `openstack` CLI. This is similar to the deprecation and removal process for the `keystone client's <https://github.com/openstack/python-keystoneclient>`_ `keystone` CLI. The neutron client's Python library won't be deprecated. It will be available along side the networking support provided by the OpenStack Python SDK.

Users of the neutron client's command extensions will need to transition to the `OSC plugin system <https://docs.openstack.org/python-openstackclient/latest/contributor/plugins.html>`_ before the `neutron` CLI is removed. Such users will maintain their OSC plugin commands within their own project and will be responsible for deprecating and removing their `neutron` CLI extension.

Transition Steps
--------------

1. **Done:** OSC adds OpenStack Python SDK as a dependency. See the following patch set: https://review.openstack.org/#/c/138745/

2. **Done:** OSC switches its networking support for the `network <https://docs.openstack.org/python-openstackclient/latest/cli/command-objects/network.html>`_ command object to use the OpenStack Python SDK instead of the neutron client's Python library. See the following patch set: https://review.openstack.org/#/c/253348/

3. **Done:** OSC removes its python-neutronclient dependency. See the following patch set: https://review.openstack.org/#/c/255545/

4. **In Progress:** OpenStack Python SDK releases version 1.0 to guarantee backwards compatibility of its networking support and OSC updates its dependencies to include OpenStack Python SDK version 1.0 or later. See the following blueprint: https://blueprints.launchpad.net/python-openstackclient/+spec/network-command-sdk-support

command objects to use the OpenStack Python SDK instead of the nova
client's Python library when neutron is enabled. When nova network
is enabled, then the nova client's Python library will continue to
be used. See the following OSC bugs:

* **Done** `Floating IP CRUD <https://bugs.launchpad.net/python-openstackclient/+bug/1519502>`_

* **Done** `Port CRUD <https://bugs.launchpad.net/python-openstackclient/+bug/1519909>`_

* **Done** `Security Group CRUD <https://bugs.launchpad.net/python-openstackclient/+bug/1519511>`_

* **Done** `Security Group Rule CRUD <https://bugs.launchpad.net/python-openstackclient/+bug/1519512>`_

---

6. **In Progress:** OSC continues enhancing its networking support.
At this point and when applicable, enhancements to the `neutron`
CLI must also be made to the `openstack` CLI and possibly the
OpenStack Python SDK. Users of the neutron client's command extensions
should start their transition to the OSC plugin system. See the
developer guide section below for more information on this step.

7. **In Progress:** Deprecate the `neutron` CLI. Running the CLI after
it has been `deprecated <https://review.openstack.org/#/c/393903/>`
will issue a warning message:

```
neutron CLI is deprecated and will be removed in the future. Use openstack CLI instead.
```
In addition, no new features will be added to the CLI, though fixes to
the CLI will be assessed on a case by case basis.

8. **Not Started:** Remove the `neutron` CLI after two deprecation cycles
once the criteria below have been met.

* The networking support provide by the `openstack` CLI is functionally
equivalent to the `neutron` CLI and it contains sufficient functional
and unit test coverage.

* `Neutron Stadium <https://docs.openstack.org/neutron/latest/contributor/stadium/>`
projects, Neutron documentation and `DevStack <https://docs.openstack.org/devstack/latest/>`
use `openstack` CLI instead of `neuron` CLI.

* Most users of the neutron client's command extensions have transitioned
to the OSC plugin system and use the `openstack` CLI instead of the
`neuron` CLI.

Developer Guide
---------------
The `neutron` CLI version 6.x, without extensions, supports over 200
commands while the `openstack` CLI version 3.3.0 supports over 70
networking commands. Of the 70 commands, some do not have all of the options
or arguments of their `neuron` CLI equivalent. With this large functional
gap, a few critical questions for developers during this transition are "Which CLI do I change?", "Where does my CLI belong?", and "Which Python library do I change?" The answer depends on the state of a command and the state of the overall transition. Details are outlined in the tables below. Early stages of the transition will require dual maintenance.

**Which CLI do I change?**

<table>
<thead>
<tr>
<th><code>neutron</code> Command</th>
<th><code>openstack</code> Command</th>
<th>CLI to Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exists</td>
<td>Doesn't Exist</td>
<td><code>neutron</code></td>
</tr>
<tr>
<td>Exists</td>
<td>In Progress</td>
<td><code>neutron</code> and <code>openstack</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(update related blueprint or bug)</td>
</tr>
<tr>
<td>Exists</td>
<td>Exists</td>
<td><code>openstack</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(assumes command parity resulting in <code>neutron</code> being deprecated)</td>
</tr>
<tr>
<td>Doesn't Exist</td>
<td>Doesn't Exist</td>
<td><code>openstack</code></td>
</tr>
</tbody>
</table>

**Where does my CLI belong?**

If you are developing an API in any of the `neutron repos <http://governance.openstack.org/reference/projects/neutron.html>`_, the client-side support must be generally located in either the openstackclient or neutronclient repos. Whether the actual code goes into one or the other repo depends on the nature of the feature, its maturity level, and/or the depth of feedback required during the development.

The table below provides an idea of what goes where. Generally speaking, we consider Core anything that is L2 and L3 related or that it has been located in the neutron repo for quite sometime, e.g. QoS or Metering, or that it is available in each neutron deployment irrespective of its configuration (e.g. auto-allocated-topology). Any client feature that falls into this categorization will need to be contributed in OSC. Any other that does not, will need to go into neutronclient, assuming that its server-side is located in a neutron controlled repo. This is a general guideline, when in doubt, please reach out to a member of the neutron core team for clarifications.

<table>
<thead>
<tr>
<th>Networking Commands</th>
<th>OSC Plugin</th>
<th>OpenStack Project for <code>openstack</code> Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>No</td>
<td>python-openstackclient</td>
</tr>
<tr>
<td>Extension</td>
<td>Yes</td>
<td>python-neutronclient</td>
</tr>
<tr>
<td>(i.e. neutron stadium)</td>
<td></td>
<td>(<code>neutronclient/osc/v2/&lt;extension&gt;</code>))</td>
</tr>
</tbody>
</table>
When a repo stops being under neutron governance, its client-side counterpart will have to go through deprecation. Bear in mind that for grandfathered extensions like FWaaS v1, VPNaaS, and LBaaS v1, this is not required as the neutron client is already deprecated on its own.

**Which Python library do I change?**

<table>
<thead>
<tr>
<th>OpenStack Project for <code>openstack</code> Commands</th>
<th>Python Library to Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>python-openstackclient</td>
<td>python-openstacksdk</td>
</tr>
<tr>
<td>python-neutronclient</td>
<td>python-neutronclient</td>
</tr>
<tr>
<td>Other</td>
<td>Applicable project owning network resource</td>
</tr>
</tbody>
</table>

**Important:** The actual name of the command object and/or action in OSC may differ from those used by neutron in order to follow the OSC command structure and to avoid name conflicts. The `network` prefix must be used to avoid name conflicts if the command object name is highly likely to have an ambiguous meaning. Developers should get new command objects and actions approved by the OSC team before proceeding with the implementation.

The "Core" group includes network resources that provide core `neutron` project features (e.g. network, subnet, port, etc.) and not advanced features in the `neutron` project (e.g. trunk, etc.) or advanced services in separate projects (FWaaS, LBaaS, VPNaaS, dynamic routing, etc.).

The "Other" group applies projects other than the core `neutron` project.

Contact the neutron PTL or core team with questions on network resource classification.

When adding or updating an `openstack` networking command to python-openstackclient, changes may first be required to the OpenStack Python SDK to support the underlying networking resource object, properties and/or actions. Once the OpenStack Python SDK changes are merged, the related OSC changes can be merged. The OSC changes may require an update to the OSC openstacksdk version in the `requirements.txt` file.

When adding an `openstack` networking command to python-openstackclient, you can optionally propose an

---

Open Source Used In Cisco VIM 3.4.6 516
which documents the new command interface before proceeding with the implementation.

Users of the neutron client’s command extensions must adopt the

system for this transition. Such users will maintain their OSC plugin within their
own project and should follow the guidance in the table above to determine
which command to change.

Developer References
~~~~~~~~~~~~~~~~~~~~~~

* See `OSC neutron support etherpad <https://etherpad.openstack.org/p/osc-neutron-support>`_
to determine if an `openstack` command is in progress.
* See `OSC command list <https://github.com/openstack/python-openstackclient/tree/master/doc/source/cli/command-objects>`_
to determine if an `openstack` command exists.
* See `OSC command spec list <https://github.com/openstack/python-openstackclient/tree/master/doc/source/contributor/specs/command-objects>`_
to determine if an `openstack` command spec exists.
* See `OSC plugin command list <https://docs.openstack.org/python-openstackclient/latest/cli/plugin-commands.html>`_
to determine if an `openstack` plugin command exists.
* See `OSC command structure <https://github.com/openstack/python-openstackclient/blob/master/doc/source/cli/commands.rst>`_
to determine the current `openstack` command objects, plugin objects and actions.
for guidance on creating new OSC command interfaces.
* See `OSC plugin <https://github.com/openstack/python-openstackclient/blob/master/doc/source/contributor/plugins.rst>`_
for information on the OSC plugin system to be used for `neutron` CLI extensions.
* Create an OSC blueprint: https://blueprints.launchpad.net/python-openstackclient/
* Report an OSC bug: https://bugs.launchpad.net/python-openstackclient/+filebug
* Report an OpenStack Python SDK bug: https://bugs.launchpad.net/python-openstacksdk/+filebug

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===== Heading 0 (reserved for the title in a document)
-----  Heading 1
~~~~~~ Heading 2
+++++++ Heading 3
~~~~~~ Heading 4
(Avoid deeper levels because they do not render well.)

Client command extension support

The client command extension adds support for extending the neutron client while considering ease of creation.

Extensions strongly conform to preexisting neutron commands (/neutron/v2_0).
A sample extension can be seen at:
neutronclient/neutron/v2_0/contrib/_fox_sockets.py

Minimum requirements from an extension
--------------------------------------

* NeutronClientExtension subclasses must have a shell_command class variable if the command is to be available to the CLI (shell.py)

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsList

Minimum requirements to use canonical neutron CRUD commands framework
----------------------------------------------------------------------

Neutron commands are cliff commands, commands in extension can use their own way to finish their tasks. But if they want to make use of the canonical neutron CRUD commands framework, the extension should:

* have a class that subclasses NeutronClientExtension to provide the requisite resource name, version support, and resource collection and object paths for a resource the commands will process.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocket

* have a class that subclasses from the ClientExtensionList to provide resource object list function. This is because most commands need the list function to get object ID via

neutronclient.neutron.v2_0.__init__.find_resource_by_id.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsList

* if needed, subclass ClientExtensionUpdate to implement update of the resource object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsUpdate

* if needed, subclass ClientExtensionDelete to implement deletion of the resource object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsDelete

* if needed, subclass ClientExtensionShow to get the detail of the resource object.

Example: neutronclient.neutron.v2_0.contrib._fox_sockets.FoxInSocketsShow

Precedence of command loading
-------------------------------
* hard coded commands are loaded first
* external commands (installed in the environment) are loaded then

Commands that have the same name will be overwritten by commands that are loaded later. To change the execution of a command for your particular extension you only need to override the execute method.

Currently this extension support is limited to top-level resources. Parent/child relationships may be added if desired.

**neutronclient.extension entry_point**

To activate the commands in a specific extension module, add an entry in setup.cfg under neutronclient.extension. For example::

    [entry_points]
    neutronclient.extension =
        fox_sockets = neutronclient.neutron.v2_0.contrib._fox_sockets

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```
======  Heading 0 (reserved for the title in a document)
------  Heading 1
~~~~~~~ Heading 2
+++++++ Heading 3
~~~~~~  Heading 4
```

(Avoid deeper levels because they do not render well.)

**CLI Option Guideline**

This document describes the conventions of neutron CLI options.

**General conventions**
### Option names should be delimited by a hyphen instead of a underscore.
This is the common guidelines across all OpenStack CLIs.

* Good: `--ip-version`
* Not Good: `--ip_version`

#. Use at least one required option for `*create` command. If all options are optional, we typically use `name` field as a required option.

#. When you need to specify an ID of a resource, it is better to provide another way to specify the resource like `name` or other reasonable field.

#. If an attribute name in API is `foo_id`, the corresponding option should be `--foo` instead of `--foo-id`.

* It is because we usually support ID and `name` to specify a resource.

#. Do not use `nargs='?'` without a special reason.

* The behavior of `nargs='?'` option for python argparse is bit tricky and may lead to unexpected option parsing different from the help message. The detail is described in the :ref:`Background section <background-nargs>` below.

#. (option) Avoid using positional options as much as possible.

* Positional arguments should be limited to attributes which will be required in the long future.

#. We honor existing options and should keep compatibilities when adding or changing options.

Options for boolean value
--------------------------

Use the form of `--option-name {True|False}`.

* For a new option, it is recommended.
* It is suggested to use `common.utils.add_boolean_argument` in an implementation. It allows `true`/`false` in addition to `True`/`False`.
* For existing options, migration to the recommended form is not necessarily required. All backward-compatibility should be kept without reasonable reasons.

Options for dict value
----------------------
Some API attributes take a dictionary.

``--foo key1=val1,key2=val2`` is usually used.

This means ``{"key1": "val1", "key2": "val2"}`` is passed in the API layer.

Examples:

* ``--host-route destination=CIDR,nexthop=IP_ADDR`` for a subnet
* ``--fixed-ip subnet_id=SUBNET,ip_address=IP_ADDR`` for a port.

Options for list value
----------------------

Some attributes take a list.

In this case, we usually use:

* Define an option per element (Use a singular form as an option name)
* Allow to specify the option multiple times

For Example, `**port-create**` has ``--security-group`` option.
``--security-group SG1 --security-group SG2`` generates
``{"security_groups: ["SG1", "SG2"]}`` in the API layer.

This convention applies to a case of a list of dict.
``--allocation-pool`` and ``--host-route`` for a subnet are examples.

Compatibility with extra arguments
-----------------------------------

*extra arguments* supports various types of option specifications.
At least the following patterns needs to be considered when defining
a new option. For more detail, see :ref:`cli_extra_arguments`.

* Normal options with value
* Boolean options : ``--foo True``, ``--bar=False``
* List options : ``--bars list=true val1 val2`` , ``--bars val1 val2``
* Dict options : ``--foo type=dict key1=val1,key2=val2``
* List of Dict options : ``--bars list=true type=dict key1=val1,key2=val2,key3=val3,key4=val4``
* ``action=clear``

For normal options with value, there are four patterns to specify an option
as extra arguments.

* ``--admin-state-up True`` (a space between option name and value)
* ``--admin-state-up=True`` (= between option name and value)
* `--admin_state_up True` (underscore is used as delimiter)
* `--admin_state_up=True` (underscore is used as delimiter)

Background
----------

There are a lot of opinions on which form of options are better or not. This section tries to capture the reason of the current choice.

Use at least one required option
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

As a convention, **neutron** CLI requires one required argument.

If all options are optional in the API level and we have `name` field, we usually use `name` as a required parameter. Requiring at least one argument has the following benefits:

* If we run `neutron *-create` without a required argument, we will have a brief help message without detail option help. It is convenient.
* We can avoid miss operation by just hitting `neutron *-create`.
Requiring at least one parameter is a good balance.

Even though we can change this convention to allow to create a resource without `name` field, it will bring confusions to existing users.

There may be opinion that it is inconsistent with API level requirement or Horizon behavior, but even if neutron CLI requires `name` field there is no bad impact on regular users. Considering possible confusion if we change it, it looks better to keep it as-is.

Options for Boolean value
~~~~~~~~~~~~~~~~~~~~~~~~~

* `--enable-foo`/`--disable-foo` or similar patterns (including `--admin-state-down`) is not suggested because we need two exclusive options for one attribute in REST API. It is meaningless.

* It is not recommended to have an option only to specify non-default value. For example, we have `--shared` or `--admin-state-down` options for net-create. This form only works for `*-create` and does not work for `*-update`. It leads to having different options for `*-create` and `*-update`.

* A flag option like `--enable-dhcp` (without value) also has a problem when considering the compatibility with *extra argument*. We can specify
``--enable-dhcp True/False`` or ``--enable-dhcp=False`` in the *extra argument* mechanism. If we introduce ``--enable-dhcp`` (without value), the form of ``--enable-dhcp True/False`` cannot be used now. This is another reason we don't use a flag style option for a boolean parameter.

.. _background-nargs:

Avoid using nargs in positional or optional arguments
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

The behavior of ``nargs=?’`` option for python argparse is bit tricky. When we use ``nargs=?’`` and if the order of command-line options is changed then the command-line parser may fail to parse the arguments correctly. Two examples of such failures are provided below.

Example 1:
This example shows how the actual behavior can differ from the provided help message. In the below block, help message at ``[5]`` says ``--bb CC`` is a valid format but the argument parsing for the same format fails at ``[7]``.

.. code-block::

    In [1]: import argparse
    In [2]: parser = argparse.ArgumentParser()
    In [3]: parser.add_argument('--bb', nargs='?')
    In [4]: parser.add_argument('cc')
    In [5]: parser.print_help()
    usage: ipython [-h] [--bb [BB]] cc

    positional arguments:
    cc

    optional arguments:
    -h, --help  show this help message and exit
    --bb [BB]

    In [6]: parser.parse_args('--bb 1 X'.split())
    Out[6]: Namespace(bb='1', cc='X')

    In [7]: parser.parse_args('--bb X'.split())
    usage: ipython [-h] [--bb [BB]] cc
    ipython: error: too few arguments
    An exception has occurred, use %tb to see the full traceback.

    SystemExit: 2
Example 2:
This example shows how fragile ``nargs='?'`` can be when user specifies
options in different order from the help message.

.. code-block:: console

In [1]: import argparse
In [2]: parser = argparse.ArgumentParser()
In [3]: parser.add_argument('--a', help='option a')
In [4]: parser.add_argument('--b', help='option b')
In [5]: parser.add_argument('x', help='positional arg X')
In [6]: parser.add_argument('y', nargs='?', help='positional arg Y')
In [7]: parser.print_help()
usage: ipython [-h] [--a A] [--b B] x [y]

positional arguments:
  x            positional arg X
  y            positional arg Y

optional arguments:
  -h, --help   show this help message and exit
  --a A        option a
  --b B        option b

In [8]: parser.parse_args('--a 1 --b 2 X Y'.split())
Out[8]: Namespace(a='1', b='2', x=X, y=Y)

In [9]: parser.parse_args('X Y --a 1 --b 2'.split())
Out[9]: Namespace(a='1', b='2', x=X, y=Y)

In [10]: parser.parse_args('X --a 1 --b 2 Y'.split())
usage: ipython [-h] [-a A] [-b B] x [y]
ipython: error: unrecognized arguments: Y
An exception has occurred, use %tb to see the full traceback.

SystemExit: 2

To exit: use 'exit', 'quit', or Ctrl-D.
To exit: use 'exit', 'quit', or Ctrl-D.

Note: Most CLI users don’t care about the order of the command-line
options. Hence, such fragile behavior should be avoided.
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LIBGCRYPT Werner Koch 2001-06-07
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GNUPG Matthew Skala 1998-08-10
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ANY g10 Code GmbH 2001-06-07
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GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
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LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
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LIBGCRYPT Werner Dittmann 2009-05-20
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GNUPG David Shaw
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LIBGCRYPT Andrey Jivsov 2010-12-09
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LIBGCRYPT Ulrich Miller 2012-02-15
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(Changes to cipher/idea.c and related files)

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.

Following the release of Python 1.6, and after Guido van Rossum left CNRI to work with commercial software developers, it became clear that the ability to use Python with software available under the GNU Public License (GPL) was very desirable. CNRI and the Free Software Foundation (FSF) interacted to develop enabling wording changes to the Python license. Python 1.6.1 is essentially the same as Python 1.6, with a few minor bug fixes, and with a different license that enables later versions to be GPL-compatible. Python 2.1 is a derivative work of Python 1.6.1, as well as of Python 2.0.

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

<one line to give the program's name and a brief idea of what it does.>

Open Source Used In Cisco VIM 3.4.6 611
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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 1989
    Ty Coon, President of Vice

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Version 2.1, February 1999

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

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.

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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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That's all there is to it!

1.81 setroubleshoot-plugins 3.0.67 3.el7

1.81.1 Available under license:

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Version 3, 29 June 2007

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The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

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.

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.

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbf0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code.
This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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1.85 python-xstatic-rickshaw 1.5.0.0 4.el7ost

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1.86 python pymysql 0.7.11 1.el7ost

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Bash homepage: http://tiswww.case.edu/php/chet/bash/bashtop.html

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support/man2html.c

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1.89 gssproxy 0.7.0 21.el7

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1.90 openssh 7.4p1 16.el7

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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-mode2016-12-19 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 m Ar force_file_perms
 .Op Fl u Ar umask
+...
Sets an explicit umask 2 to be applied to newly-created files and directories, instead of the user's default mask.

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.

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.c	2017-02-09 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;

@@ -679,6 +693,7 @@ process_open(u_int32_t id)
     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 */
     @ @ -688.6 +693.10 @ @ process_open(u_int32_t id)
     debug3("request %u: open flags %d", id, pflags);
     flags = flags_from_portable(pflags);
     mode = (a.flags & SSH2_FXFILEXFER_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] [-m] [-P blacklisted_requests] 
-    [-p whitelisted_requests] [-u umask]n"
+    [-p whitelisted_requests] [-u umask] [-m force_file_perms]n"
 "    %s -Q protocol_feature\n",
 __programe, __programe);
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:p:Q:u:m:cehR") != -1) { 
switch (ch) {
    case 'Q':
if (strcasecmp(optarg, "requests") != 0) {
    Fatal("Invalid umask\"\%s\"\", optarg);
    (void)umask((mode_t)mask);
    break;
+case 'm':
+    /* Force permissions on file received via sftp */
+    permforce = 1;
+    permsforcemode = strtol(optarg, &cp, 8);
+    if (permsforcemode < 0 || permsforcemode > 07777 ||
+        *cp != '0' || (permsforcemode == 0 &&
+        errno != 0))
+    Fatal("Invalid file mode \"\%s\"\", optarg);
+    break;
    case 'h':
    default:
    sftp_server_usage();
    /*
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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 potental issues */
#undef WIFEXITED
#undef WIFSTOPPED
#endif
#endif
#define _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 WIFSTOPTED(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 */
long_t waitpid(int, int *, int);

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

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*/

#ifndef BSD_WAITPID_H
#define BSD_WAITPID_H

#ifndef HAVE_WAITPID

#endif
#define BSD_WAITPID_H

#endif

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/* 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)
#endif

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

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

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define 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 POLLNORMPOLLRDNORM
#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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* Jamie Beverly
* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT
* Jan-Pieter Cornet (johnpc) - 2012-03-23 03:25:52 PDT
* chrysn@fsfe.org
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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 POLLErr0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLHUP0x0010
#define POLLNVAL0x0020
#define POLLRDNorm0x0040
#define POLLNORMPOLLRDNorm
#define POLLWRNorm POLLOUT
#define POLLWDBAND0x0080
#define POLLWDBAND0x0100
#endif

#define INFTIM(-1)/* not standard */
int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
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1.93 cyrus-sasl 2.1.26 23.el7

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1.94 tree 1.6.0 10.el7

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* lib/domain_name/etld_data.rb

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1.99 python-sqlparse 0.1.18 5.el7ost

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1.102 ceph-base 12.2.8 128.el7cp

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

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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# define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

# ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

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#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
    #pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>
namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_ifConvertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_ifConvertible;
using boost::move_detail::isConvertible;
using boost::move_detail::if_c;
using boost::move_detail::if_
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

    template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first;  }

    template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first);  }
};

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

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

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t { }

using vector = mpl_vector([1..input_size].to_a.map { [n] "t<#{n}>" }) %;

int main() {

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 *
 */

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

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f) {}
private:
    split_path& operator=(const split_path&);
};

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

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

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

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }

    os <<
        "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\"\n"
        "<html><head><title>Boost Licence Dependency Information</title>
        if(m_module_list.size() == 1)
        {
            os << " for " << *(m_module_list.begin());
        }
    os <<
        "</head><body>\n"
        "</body>\n"
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
 os << " for " << *(m_module_list.begin());
}

os << "</H1>\n" "<H2>Contents</H2>\n" 
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
 os << "<a href="#summary">Licence Summary</a>\n";
 os << "<a href="#details">Licence Details</a>\n";

while(i != j)
{
 // title:
 os << " " << make_link_target(licenses.first[i->first].license_name) << "\n" << licenses.first[i->first].license_name << "</a>\n";
++i;
}

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

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

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

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}

```cpp
while(si != sj)
{
    os << *si << "<BR>
    ++si;
}
```

```cpp
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></p>";
```

```csharp
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^\[[[:blank:]]*#\[[[:blank:]]*define\[[[:blank:]]*\+BOOST_VERSION\[[[:blank:]]*+(\d+)]+\d\+\]]\+\d\+\])
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "\n";
```

```csharp
//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << "</H3>
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>"
        // Copyright holders:
        os << "This license is used by " << i->second.authors.size()
            " authors and " << i->second.files.size()
            " files <a href="/\" async="make_link_target(licenses.first[i->first].license_name) << "/\"(see details)</a>";
        os << "</p></BLOCKQUOTE>\n"
        ++i;
    }
```

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

i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();

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

os << '</p></BLOCKQUOTE>
; // Output list of files with no found copyright holder:
//
// os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><ul>
"<p>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</p><BLOCKQUOTE><P>

i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();

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

os << '</p></BLOCKQUOTE>
;
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    // os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><ul>
    "<< "<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:</p><ul>
    if (!m_converted_to_bsl.empty())
    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;

        conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
    os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
        "<tt/br>\n<table border="1">
  <tr>
    <td><pre>" << i->second.first << "</pre></td><n
  <tr>
    "<pre/td>\n  \n</table>\n";
    ++i;
    ++file_num;
}

// Output list of files that could be moved over to the Boost Software License

//

os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
";
The following " m_can_migrate_to_bsl.size() " files could be manually converted to the Boost Software License, but have not yet been:

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << "<p>linked to " << i2->first << "</p>
    ++i2;
}

os << "</BLOCKQUOTE>";

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

// os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
";
The following " m_cannot_migrate_to_bsl.size() " files cannot be converted to the Boost Software License because we need the permission of more authors:

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << "<p>linked to " << i2->first << "</p>
    ++i2;
}

os << "</BLOCKQUOTE>";

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

// os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"; Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
std::ostream_iterator<std::string>(os, "<br/>");
os << "</p></BLOCKQUOTE>";

// output a table of copyright information:
//
os << "<H2>Copyright Holder Information</H2><table border="1"></table>
std::map<std::string, std::set<fs::path, path_less>> m_author_data;
std::map<fs::path, fs::path, path_less> m_boost_path;
std::map<fs::path, std::pair<std::string, std::string>, path_less> m_converted_to_bsl;

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}

// output file dependency information:
//
os << "<H3>File Dependency Information</H3><pre>
std::map<fs::path, std::pair<std::string, std::string>, path_less>::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
bad_paths.insert(i->first);
++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>
";
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
                {
                    os << " <I>(Circular dependency!)</I>";
                    break; // circular dependency!!!
                }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";
os << "</body></html>\n";
if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
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License: LGPL2.1 (see COPYING-LGPL2.1)

Files: doc/*
Copyright: (c) 2010-2012 New Dream Network and contributors
License: Creative Commons Attribution Share Alike 3.0 (CC-BY-SA-3.0)

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License: GPL3

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Files: src/include/ceph_hash.cc
Copyright: None
License: Public domain

Files: src/common/bloom_filter.hpp
Copyright: Copyright (C) 2000 Arash Partow <arash@partow.net>
License: Boost Software License, Version 1.0

Files: src/common/crc32c_intel*:
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Jeff Garland</para>
</section>
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overrides:
  ceph:
  conf:
  client:
    fuse set user groups: true
    fuse default permissions: false
client acl type: posix_acl

tasks:
- workunit:
  clients:
  all:
   - suites/pjd.sh
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>
using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }

# 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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#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#pragma once

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/config.hpp>

namespace boost {


namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_
using boost::move_detail::true_
using boost::move_detail::false_
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

} // namespace detail
} // namespace intrusive

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

template<>
struct ls_zeros<0>
{

static const std::size_t value = 0;

};

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

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)    
template <typename T>
struct boost_intrusive_has_type_##TNAME
{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename X>
    static int test(...);

    static const bool value = (1 == sizeof(test<T>(0, 0)));
};

template <typename T, typename DefaultType>
struct boost_intrusive_default_type_##TNAME
{
    struct DefaultWrap { typedef DefaultType TNAME; };  

    typedef typename
    ::boost::intrusive::detail::if_c
    < boost_intrusive_has_type_##TNAME<T>::value
    , T, DefaultWrap::type::TNAME type;
};

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)   
typename INSTANTIATION_NS_PREFIX
    boost_intrusive_default_type_##TNAME<T, TIMPL>::type

//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  
INSTANTIATION_NS_PREFIX
    boost_intrusive_has_type_##TNAME<T>::value

//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)    
template <typename T, typename DefaultType>
struct boost_intrusive_eval_default_type_## TNAME \
{ \
  template <typename X> \
  static char test(int, typename X::TNAME*); \
  \n  template <typename X> \
  static int test(...); \
  \n  struct DefaultWrap \
  { typedef typename DefaultType::type TNAME; }; \
  \n  static const bool value = (1 == sizeof(test<T>(0, 0))); \
  \n  typedef typename \
  ::boost::intrusive::detail::eval_if_c \
  < value \
  , ::boost::intrusive::detail::identity<T> \
  , ::boost::intrusive::detail::identity<DefaultWrap> \
  >::type::TNAME type; \
}; \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, 
TNAME, TIMPL) \
  typename INSTANTIATION_NS_PREFIX \
  boost_intrusive_eval_default_type_## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, 
TYPEDEF_TO_FIND) \
  template <class T> \
  struct TRAITS_PREFIX##_bool \
  { \
    template<bool Add> \
    struct two_or_three {yes_type _[2 + Add];}; \n    template <class U> static yes_type test(...); \n    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int); \n    static const std::size_t value = sizeof(test<T>(0)); \n  }; \
  \n  template <class T> \
  struct TRAITS_PREFIX##_bool_is_true \
  { \
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2; 
  }; \
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
template<typename U, typename Signature> 
class TRAITS_NAME 
{
private:
   
   template<typename T> 
   static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);
   template<typename T> static ::boost::intrusive::detail::no_type test(...);
   
   public:
   static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
};

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) 
-template <typename Type> 
struct TRAITS_NAME 
{
   
   struct BaseMixin 
   {
   
      void FUNC_NAME();
   };
   struct Base : public Type, public BaseMixin { Base(); };
   template<typename T, T t> class Helper{};
   template<typename U> 
   static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); 
   static ::boost::intrusive::detail::yes_type test(...); 
   static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); 
};

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

template<typename Type, class> 
struct TRAITS_NAME 
   : public TRAITS_NAME##_ignore_signature<Type> 
{
};

//namespace detail
//namespace intrusive
//namespace boost

#include <boost/intrusive/detail/config_end.hpp>
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overrides:
ceph:
  conf:
    client:
      fuse default permissions: false
      client acl type: posix_acl
  tasks:
    - workunit:
      clients:
        all:
          - fs/misc/acl.sh
          - fs/misc/chmod.sh

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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state { };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }

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

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_CONFIG_HPP

#include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <cstdlib>

namespace boost {
namespace interprocess {
namespace ipcdetail {

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

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

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

    typedef true_  true_type;
    typedef false_ false_type;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

}  //namespace boost {

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#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
names = []
lignes = []
with open(filename, 'r') as f:
    content = list(f)
for i, line in enumerate(content[:15]):
    m = re.match(r'^(?P<prefix>\W*)(\(c\))?\s*copyright\s*\((\(c\))?\s+\d{4}(\s+-\s+\d{4})?\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
    if m:
        d = m.groupdict()
        prefix.add(d['prefix'])
        lines.append(i)
        names.append(d['name'].strip())
if len(prefix) != 1:
    print 'Not found:', filename
    return
prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

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Duktape is an embeddable Javascript engine, with a focus on portability and compact footprint.
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  <_3:copyrightText>Copyright 2013-2014 Duktape authors (see AUTHORS.rst in the Duktape distributable)</_3:copyrightText>
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Revision 2.0: Galois Field backend now links to GF-Complete

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@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
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@page
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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...
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1.111 python-flask 0.10.1 5.el7_7
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1.112 rest-client 2.0.2
1.113 libuser 0.60 9.el7

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

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1.132 fence-virt 0.3.2 13.el7

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1.133 python-etcd 0.4.5.cisco 1

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1.142 plymouth 0.8.9 0.31.20140113.el7
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1.143.1 Available under license:

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1.147 cachetools 3.0.0
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1.148 docker 1.13.1 162.git64e9980.el7_8
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1.150 alpinelinux-aports 3.7.1

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From ed217c98b003f226500d87e65600f984a692b6ce Mon Sep 17 00:00:00 2001
From: Juergen Gross <jgross@suse.com>
Date: Tue, 29 May 2018 09:53:24 +0200
Subject: [PATCH] x86/xpti: avoid copying L4 page table contents when possible

For mitigation of Meltdown the current L4 page table is copied to the cpu local root page table each time a 64 bit pv guest is entered.

Copying can be avoided in cases where the guest L4 page table hasn't been modified while running the hypervisor, e.g. when handling interrupts or any hypercall not modifying the L4 page table or %cr3.

So add a per-cpu flag indicating whether the copying should be performed and set that flag only when loading a new %cr3 or modifying the L4 page table. This includes synchronization of the cpu local root page table with other cpus, so add a special synchronization flag for that case.

A simple performance check (compiling the hypervisor via "make -j 4") in dom0 with 4 vcpus shows a significant improvement:

- real time drops from 112 seconds to 103 seconds
- system time drops from 142 seconds to 131 seconds

Signed-off-by: Juergen Gross <jgross@suse.com>
Reviewed-by: Jan Beulich <jbeulich@suse.com>
---
xen/arch/x86/flushlb.c | 4 ++++
9 files changed, 57 insertions(+), 16 deletions(-)

diff --git a/xen/arch/x86/flushtlb.c b/xen/arch/x86/flushtlb.c
index 8a7a76b8ff..2729ba42e7 100644
--- a/xen/arch/x86/flushtlb.c
+++ b/xen/arch/x86/flushtlb.c
@@ -8,6 +8,7 @@
*/
#include <xen/sched.h>
+#include <xen/smp.h>
#include <xen/softirq.h>
#include <asm/flushtlb.h>
#include <asm/page.h>
@@ -160,5 +161,8 @@
local_irq_restore(irqfl);
++
+    if ( flags & FLUSH_ROOT_PGTBL )
+        get_cpu_info()->root_pgt_changed = true;
++
+    return flags;
}

diff --git a/xen/arch/x86/mm.c b/xen/arch/x86/mm.c
index 63a933fd5f..171137310b 100644
--- a/xen/arch/x86/mm.c
+++ b/xen/arch/x86/mm.c
@@ -4052,18 +4053,27 @@
      cmd == MMU_PT_UPDATE_PRESERVE_AD, v);

void write_ptbase(struct vcpu *v)
{
++
+    get_cpu_info()->root_pgt_changed = true;
++
+    write_cr3(v->arch.cr3);
}
@@ -4052,18 +4053,27 @@ long do_mmu_update(
       case PGT_l4_page_table:
           rc = mod_l4_entry(va, l4e_from_intpte(req.val), mfn,
                              cmd == MMU_PT_UPDATE_PRESERVE_AD, v);
-               /*
No need to sync if all uses of the page can be accounted
* to the page lock we hold, its pinned status, and uses on
* this (v)CPU.
*/

if ( !rc && !cpu_has_no_xpti &&
    ((page->u.inuse.type_info & PGT_count_mask) >
     (1 + !!(page->u.inuse.type_info & PGT_pinned) +
      (pagetable_get_pfn(curr->arch.guest_table) == mfn) +
      (pagetable_get_pfn(curr->arch.guest_table_user) ==
       mfn))))
    sync_guest = true;
+ if ( !rc && !cpu_has_no_xpti )
+ {
+   bool local_in_use = false;
+
+   if ( pagetable_get_pfn(curr->arch.guest_table) == mfn )
+     {
+       local_in_use = true;
+       get_cpu_info()->root_pgt_changed = true;
+     }
+   
+   /*
+    * No need to sync if all uses of the page can be
+    * accounted to the page lock we hold, its pinned
+    * status, and uses on this (v)CPU.
+    */
+    if ( (page->u.inuse.type_info & PGT_count_mask) >
+         (1 + !!(page->u.inuse.type_info & PGT_pinned) +
+          (pagetable_get_pfn(curr->arch.guest_table_user) ==
+           mfn) + local_in_use) )
+      sync_guest = true;
+  }
break;

case PGT_writable_page:
  perfc_incr(writable_mmu_updates);
@@ -4177,7 +4187,7 @@ long do_mmu_update(
    cpumask_andnot(mask, pt_owner->domain_dirty_cpumask, cpumask_of(cpu));
    if ( !cpumask_empty(mask) )
      flush_mask(mask, FLUSH_TLB_GLOBAL);
-    flush_mask(mask, FLUSH_TLB_GLOBAL | FLUSH_ROOT_PGTBL);
+    flush_mask(mask, FLUSH_TLB_GLOBAL | FLUSH_ROOT_PGTBL);
  }

  perfc_add(num_page_updates, i);
diff --git a/xen/arch/x86/mm/shadow/multi.c b/xen/arch/x86/mm/shadow/multi.c
index 93771d9e43..a53d3db56c 100644
--- a/xen/arch/x86/mm/shadow/multi.c
+++ b/xen/arch/x86/mm/shadow/multi.c
static int shadow_set_l4e(struct domain *d,
/* Write the new entry */
    shadow_write_entries(sl4e, &new_sl4e, 1, sl4mfn);
+    flush_root_pgtbl_domain(d);
+    flags |= SHADOW_SET_CHANGED;

    if ( shadow_l4e_get_flags(old_sl4e) & _PAGE_PRESENT )
return flags;
GET_STACK_END(dx)
mov STACK_CPUINFO_FIELD(pv_cr3)(%rdx), %rdi
  +  test %rdi, %rdi
  +  jz  .Lrag_keep_cr3
  +  mov %rdi, %rax
  +  cmpb $0, STACK_CPUINFO_FIELD(root_pgt_changed)(%rdx)
  +  je  .Lrag_copy_done
  +  movb $0, STACK_CPUINFO_FIELD(root_pgt_changed)(%rdx)
movabs $PADDR_MASK & PAGE_MASK, %rsi
movabs $DIRECTMAP_VIRT_START, %rcx
-  mov %rdi, %rax
  -  and %rsi, %rdi
  -  jz  .Lrag_keep_cr3
  and %r9, %rsi
add %rcx, %rdi
add %rcx, %rsi
@@ -180,6 +184,7 @@ restore_all_guest:
sub $(ROOT_PAGETABLE_FIRST_XEN_SLOT - \
ROOT_PAGETABLE_LAST_XEN_SLOT - 1) * 8, %rdi
rep movsq
+.Lrag_copy_done:
mov STACK_CPUINFO_FIELD(cr4)(%rdx), %rdi
mov %r9, STACK_CPUINFO_FIELD(xen_cr3)(%rdx)
mov %rdi, %rsi
diff --git a/xen/arch/x86/x86_64/traps.c b/xen/arch/x86/x86_64/traps.c
index 4f92a2e1ca..8bb2f1afe5 100644
--- a/xen/arch/x86/x86_64/traps.c
+++ b/xen/arch/x86/x86_64/traps.c
@@ -284,6 +284,8 @@ void toggle_guest_pt(struct vcpu *v)
v->arch.flags ^= TF_kernel_mode;
update_cr3(v);
+  get_cpu_info()->root_pgt_changed = true;
+
/* Don't flush user global mappings from the TLB. Don't tick TLB clock. */
asm volatile ( "mov %0, %%cr3" : : "r" (v->arch.cr3) : "memory" );
diff --git a/xen/include/asm-x86/current.h b/xen/include/asm-x86/current.h
index 7aff0e245..f0061bd497 100644
--- a/xen/include/asm-x86/current.h
+++ b/xen/include/asm-x86/current.h
@@ -59,6 +59,14 @@ struct cpu_info {
    uint8_t      xen_spec_ctrl;
    spec_ctrl_flags;

+  /* The following field controls copying of the L4 page table of 64-bit
+   * PV guests to the per-cpu root page table on entering the guest context.
/* If set the L4 page table is being copied to the root page table and
  * the field will be reset.
  */
bool root_pgt_changed;

unsigned long __pad;
/* get_stack_bottom() must be 16-byte aligned */
};

/* get_stack_bottom() must be 16-byte aligned */

/* VA for the flush has a valid mapping */
#define FLUSH_VA_VALID   0x800
/* Flush the per-cpu root page table */
#define FLUSH_ROOT_PGTBL 0x2000

/* Flush local TLBs/caches. */
unsigned int flush_area_local(const void *va, unsigned int flags);

#define flush_tlb_one_all(v) \    
flush_tlb_one_mask(cpu_online_map, v)

#define flush_root_pgtbl_domain(d) \   
{ \       
    if (!cpu_has_no_xpti && is_pv_domain(d) && !is_pv_32bit_domain(d) ) \   
        flush_mask((d)->domain_dirty_cpumask, FLUSH_ROOT_PGTBL); \   
    } \   

static inline void flush_page_to_ram(unsigned long mfn) {}
static inline int invalidate_dcache_va_range(const void *p, unsigned long size)

---

2.15.2
mini_sendmail - accept email on behalf of real sendmail

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---

```
#include "extern.h"
#define AGREEMENT "https://letsencrypt.org" \
- " /documents/LE-SA-v1.1.1-August-1-2016.pdf"
#define SSL_DIR "/etc/ssl/acme"
#define SSL_PRIV_DIR "/etc/ssl/acme/private"
#define ETC_DIR "/etc/acme"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py-flake8-copyright
__pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
  cd "$builddir"
  python3 setup.py build || return 1
}

package() {
  cd "$builddir"
  python3 setup.py install --prefix=/usr --root="/pkgdir" || return 1
}
md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73  flake8-copyright-0.2.0.tar.gz"
sha512sums="bab1bfaed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faeff5d586c3b1be9570f4a977a7e2417b586e543bfba12abce256b2023c8c4993ee90  flake8-copyright-0.2.0.tar.gz"

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 */

# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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_pkgreal=BSD-Resource
pkgname=perl-bsd-resource
pkgver=1.2909
pkgrel=2
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=" "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
build() {
  cd "$_builddir"
  export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
  make && make test || return 1
}

package() {
  cd "$_builddir"
  make DESTDIR="$pkgdir" install || return 1
  find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa95308aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f161957e289e8de45af5fc79e851e2e855e06  BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd8574363750157943c7f7700276ccee2bd40a429faa430  BSD-Resource-1.2909.tar.gz"

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pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

__builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
cd "$_builddir"
update_config_sub || return 1
}
build() {
cd "$_builddir"
./configure \n--build=$CBUILD \n--host=$CHOST \n--prefix=/usr \n|| return 1
make || return 1
}

package() {
cd "$_builddir"
make DESTDIR="$pkgdir" install || return 1
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001aee9bace727b5b4c8589405256a3e020 libart_lgpl-2.3.21.tar.bz2"
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cpanmakedepends=""
depends="$cpandepends"
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subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$pkgreal-$pkgver"

prepare() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    cd "$_builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test
}

package() {
    cd "$_builddir"
    make DESTDIR="$pkgdir" install || return 1
    find "$pkgdir" -name perllocal.pod -o -name .packlist -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
fix issues with fortify-headers and the way openssh handles the needed BSD compatible realpath(3).
unconditionally use the provided realpath() as otherwise cross-builds would try to use musl realpath() which is posix compliant and not working to openssh expectations.

diff -ru openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h openssh-7.2p2/openbsd-compat/openbsd-compat.h
--- openssh-7.2p2.orig/openbsd-compat/openbsd-compat.h 2016-03-09 20:04:48.000000000 +0200
@@ -68,17 +68,7 @@
     void *reallocarray(void *, size_t, size_t);
 #endif

-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
-/*
- * glibc's FORTIFY_SOURCE can redefine this and prevent us picking up the
- * compat version.
- */

#ifdef BROKEN_REALPATH
#ifdef HAVE_REALPATH
#define realpath(x, y) _ssh_compat_realpath(x, y)
#endif
#endif

char *realpath(const char *path, char *resolved);

#ifndef HAVE_RRESVPORT_AF
int rresvport_af(int *alport, sa_family_t af);
#endif

diff -ru openssh-7.2p2.orig/openbsd-compat/realpath.c openssh-7.2p2/openbsd-compat/realpath.c
--- openssh-7.2p2.orig/openbsd-compat/realpath.c2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/openbsd-compat/realpath.c2016-07-18 13:33:45.420721690 +0300
@@ -31,7 +31,7 @@
 #include "includes.h"

-#if !defined(HAVE_REALPATH) || defined(BROKEN_REALPATH)
+#if 1

#include <unistd.h>
#include <sys/types.h>
#include <sys/param.h>

* in which case the path which caused trouble is left in (resolved).
*/

char *
realpath(const char *path, char *resolved)
+ssh realpath(const char *path, char *resolved)
{
  struct stat sb;
  char *p, *q, *s;

diff -ru openssh-7.2p2.orig/sftp-server.c openssh-7.2p2/sftp-server.c
--- openssh-7.2p2.orig/sftp-server.c2016-03-09 20:04:48.000000000 +0200
+++ openssh-7.2p2/sftp-server.c2016-07-18 13:34:29.131267241 +0300
@@ -1162,7 +1162,7 @@
    send_status(id, errno_to_portable(errno));
  } else {
    Stat s;
    */
1.151 seabios 1.11.0 2.el7

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Version 3, 29 June 2007

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# who commit code to the project are encouraged to add their names
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* Better unicode support for filepost using StringIO buffers

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* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

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

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

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

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

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs
* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1.157 libffi 3.0.13 18.el7

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1.160 json-c 0.11 4.el7_0
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1.163 http-parser-rb 0.6.0

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1.164 python-xstatic-jasmine 2.4.1.1 1.el7ost

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1.165 lzo 2.06 8.el7

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1.168 libnfsidmap 0.25 19.el7

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1.172 python-jsonpointer 1.10 4.1.el7ost
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1.173 quota 4.01 17.el7

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

- Jonathan Underwood combined the block and frame modules into a coherent single project with many fixes, clean-ups and documentation
- Jonathan Underwood added frame bindings based on the `lz4ex` [https://github.com/jerryryle/python-lz4ex] by Jerry Ryle and the `lz4tools` [https://github.com/darkdragn/lz4tools] project by Christopher Jackson
- Jonathan Underwood updated the block format support to use the tunable accelerated and high compression functions
- Mathew Rocklin added support for dropping the GIL to the block module, and Travis testing support
- Antoine Martin added initial support for fast compression support to the block library
- Steve Morin wrote the original lz4 block bindings

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1.179 python-pathlib 1.0.1 1.el7ost

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1.180 mesa-libgbm 18.0.5 4.el7_6
1.180.1 Available under license:

```
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789
-+
/
```

Legal characters in GLSL are:

* Identifier characters:
  * Letters a-z
  * Letters A-Z
  * Underscore
  * Numbers 0-9

* Punctuation:
  * Period, plus, dash, slash, asterisk, percent, angled brackets,
  * square brackets, parentheses, braces, caret, vertical bar,
  * ampersand, tilde, equals, exclamation point, colon, semicolon,
  * comma, and question mark

* Special:
* Number sign (as used in preprocessor)
* Backslash just before newline as line continuation
* White space:
* Space, horizontal tab, vertical tab, form feed, carriage-return, and line-feed.
* [GLSL Language Specification 4.30.6, section 3.1]
* In this file, we test each of these in turn as follows:
* Identifier characters: All pass through unchanged
* Punctuation: All pass through unchanged
* Special: Empty directive replaced with blank line
* Line continuation merges two lines, then a blank line
* Whitespace: 4 horizontal space characters each replaced with space
* 2 newline characters each replaced with a newline
*/
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_0123456789
.
+
-
/
*
%
<
>
[
]
( )
{
}
^|
&
~
=
!
:
;"
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# Ian Romanick <idr@us.ibm.com>

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Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,

Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following
statement:
*
* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
* Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
*
* Only for use in the Mesa project, this point 2 is filled by naming the
* technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa
project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's
MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from
Fedora's copy of Mesa. However, looking at the license on your SMAA
code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en">
<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>
<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>

<iframe src="contents.html"></iframe>

<div class="content" style="text-align: center;">
</div>

</body>
</html>
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<pre>
Component     Location          License
---------------------------------------------------------------
Main Mesa code src/mesa/       MIT
Device drivers src/mesa/drivers/* MIT, generally
Gallium code   src/gallium/     MIT
Ext headers    include/GL/glext.h Khronos
                include/GL/glxext.h
GLX client code src/glx/        SGI Free Software License B
C11 thread     include/c11/threads*.h Boost (permissive)
</pre>
1.181 networking-vpp 19.08
rc15.el7_osp12.cisco
1.181.1 Available under license:

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

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   :hidden:

   copyright.rst

.. include:: notice.rst

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  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title>Copyright &mdash; MIT Kerberos Documentation</title>
  </head>
  ...
</html>
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/gdsp_name.c
    lib/gssapi/mechglue/gdsp_status.c
    lib/gssapi/mechglue/gdup_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
and the initial implementation of incremental propagation, including the following new or changed files:

```
.. parsed-literal::

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

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

/<pre class="highlight-python">include</pre>
/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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</pre>
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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
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lib/gssapi/mechglue/g_imp_sec_context.c
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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
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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import os
import sys
import re

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

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

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

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

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

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

1.183 redhat-rpm-config 9.1.0 87.el7

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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1.207 python-configobj 4.7.2 7.el7

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Version 2, June 1991

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under certain conditions; type `show c' for details.

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

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1.219 sqlite 3.7.17 8.el7_6.1
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# 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
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abilities abil
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abu             abu
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admirer          admir          admir
admiring         admir          admir
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admission        admiss         admiss
admit            admit          admit
admits           admit          admit
admittance       admitt         admitt
admitted         admit          admit
admitting        admit          admit
admonish         admonish       admonish
admonishing      admonish       admonish
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adriatic         adriat        adriat
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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($from);
SELECT term FROM t1_term;
}
} $pto
}

finish_test

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{string currentfile exch readstring pop}executeonly def

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application is free to use the same <a href="#sqlite3">database connection</a> or the

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SQLite core and like the SQLite core are in the public domain. The
The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in

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<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><b>About SQLite</b></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.

<b>CONTACT INFORMATION:</b><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><b>About Mozilla</b></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.

<b>CONTACT INFORMATION:</b><br>
Mozilla Corporation<br>
Jessica Waight<br>
Tel: +1.415.345.4754<br>
Email: jwaight@outcastpr.com

<p><b>About Symbian Limited</b></p>

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>

<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>

<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.</p>

<p>CONTACT INFORMATION:<br>Symbian Global Press Office<br>Karen Hamblen<br>+44 207 154 1707<br>press@symbian.com</p>

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# 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.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
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

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');
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 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.

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
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>>

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''ourke@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.

---
Open Source Used In Cisco VIM 3.4.6 2242
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

Open Source Used In Cisco VIM 3.4.6 2343
"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@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
');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@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
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

I saw it. Very interesting.

Vince
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,

[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


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',, 'pcomplete text is not visible in the image.

Open Source Used In Cisco VIM 3.4.6  2348
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)

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, 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,

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.
Open Source Used In Cisco VIM 3.4.6  2351

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)', '2001 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.....

w ww.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
''
');
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 >>

 Aralık

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

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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://expensems.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
Reliant
Steve 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
John');
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,

*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;
} {}
SELECT rowid FROM email WHERE email MATCH 'mark susan'
}
} {40}
do_test fts3ac-1.5 {
excsq{
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
} {40}
do_test fts3ac-1.6 {
excsq{
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
}
}
do_test fts3ac-1.7 {
excsq{
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
excsq{
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
}
} {24}
do_test fts3ac-1.9 {
excsq{
    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 {
excsq{
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
}
} {20 {20 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 {
excsq{
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {20 {20 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
excsq{
    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
#
ndo_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-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b>here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>}}
do_test fts3ac-4.3 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> asset base for potential reuse/ licensing
    Contract negotiations}}

do_test fts3ac-4.4 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations}}

do_test fts3ac-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 }}

do_test fts3ac-4.6 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'chris is here'
    }
} {{chris.germany@enron.com" bet this is next
to about going here Christmas eve}}

do_test fts3ac-4.7 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH "pursuant to"
    }
} {{Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement,
together...}}

do_test fts3ac-4.8 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'ancillary load davis'
    }
} {{pete.davis@enron.com...3; No schedules awarded detected in
Load schedule.}}
# Combinations of AND and OR operators:
#
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 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

do_test fts3ac-5.2 {
execsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@enron.com...31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

#-------------------------------------------------------------------------
# Test a problem reported on the mailing list.
#
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';
}
} {{1 0 0 3}}

finish_test

---

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

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# 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.
# 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 DEFAULT '' , t_value TEXT NOT NULL DEFAULT '' , b_blob BLOB , d_lastmodifdate 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 DEFAULT 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_expulsion_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expulsion_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 , i_number INTEGER NOT NULL , d_date DATE NOT NULL DEFAULT '0000-00-00' , rd_account_id INTEGER NOT NULL , t_mode TEXT DEFAULT '' , r_payee_id INTEGER NOT NULL DEFAULT 0 , t_comment TEXT NOT NULL DEFAULT '' , r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0 , t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')) , i_bookmarked INTEGER NOT NULL DEFAULT 0 , 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 , f_balance FLOAT NOT NULL DEFAULT 0 , r_operation_id INTEGER NOT NULL DEFAULT 0 , '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 '' , i_number INTEGER NOT NULL DEFAULT 0 , i_operation_id INTEGER NOT NULL DEFAULT 0 , t_bookmarked INTEGER NOT NULL DEFAULT 0 , i_tmp INTEGER NOT NULL DEFAULT 0 , r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0 );
  }
}
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,t_icon TEXT DEFAULT '',f_sortorder FLOAT,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);
CREATE INDEX idx_refund_close ON refund (t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule (t_action_type);
CREATE INDEX idx_budget_category_id ON budget (rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node (t_name, rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node (t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit (t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit (t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue (d_date, rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank (t_name);
CREATE UNIQUE INDEX uidx_account_name ON account (t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category (t_name, rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category (t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund (t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee (t_name);
CREATE UNIQUE INDEX uidx_interest ON interest (d_date, rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget (i_year, i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * FROM node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname FROM node;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)|| ' > ' || new.t_name END WHERE id=new.id; END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)|| ' > ' || new.t_name END WHERE id=new.id; UPDATE node SET t_name=new.t_name WHERE rd_node_id=new.id; END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account BEGIN UPDATE account FOR EACH ROW BEGIN IF NEW.rd_bank_id=0 THEN RAISE(ABORT, 'Impossible d’ajouter un objet (bank est utilised par account)'); END;
NEW.rd_bank_id!=" AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fk_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW
BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilist par account)
Nom de la contrainte: fk_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!=" AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
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 utilis 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 utilis 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 fk_budgetcategory_category_id id BEFORE DELETE ON category FOR EACH ROW
BEGIN     SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget)
Nom de la contrainte: fk_budgetcategory_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_target_id BEFORE INSERT ON budgetrule FOR
EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_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_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR
EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_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 fk_budgetrulecategory_category_id_target_id BEFORE DELETE ON category FOR EACH ROW
BEGIN     SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fk_budgetrulecategory_category_id_target_id') WHERE (SELECT rc_category_id_target FROM
budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkd_budgetrulecategory_category_id_target_id BEFORE UPDATE ON budgetrule FOR
EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrulecategory_category_id_target_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 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 utilis par budgetrule)
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE (SELECT rc_category_id FROM
budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
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 utilisé 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 fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON
doctransactionitem FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionitem)
Nom de la contrainte: fku_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 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 utilisé 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 fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON
doctransactionmsg FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionmsg)
Nom de la contrainte: fku_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
doctransaction 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 utilisé 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 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 utilisé par interest)
Nom de la contrainte: fku_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 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)
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 utilis 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_rd_node_id_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 fkdc_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 fkdc_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: fkdc_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 operation
WHERE r_recurrentoperation_id = OLD.id) IS NOT 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 operation
WHERE r_recurrentoperation_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM operation WHERE operation.r_recurrentoperation_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 operation
WHERE r_recurrentoperation_id = OLD.id) IS NOT 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 operation
WHERE r_recurrentoperation_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM operation WHERE operation.r_recurrentoperation_id = OLD.id; 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_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 recurrentoperation 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 recurrentoperation WHERE id = NEW.rd_operation_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 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 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 fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; 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 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 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;
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 subopération)') 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 subopération)') 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 DELETE FROM 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)') 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)') 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 DELETE FROM 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)') 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)') 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 (unit est utilisé par unitvalue)') 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 utilisé par unitvalue)') 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 dtruire un objet (category 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 fkd_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.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 (CASE WHEN s.t_symbol!=" THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) AS t_UNIT,
(CASE WHEN unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'T' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE, (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) AS t_SUPPORT, (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) AS t_TRANSFER FROM unitvalue;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT FROM v_unit_tmp1;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)|| ' '||STRFTIME('%d/%m/%Y',d_date) AS t_displayname FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND (T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *(SELECT t_name FROM payee s WHERE s.id=operation.r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;
CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,((SELECT s.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1 op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)|| IFNULL(t_PAYEE,"")|| v_operation.f_CURRENTAMOUNT|| (SELECT (CASE WHEN s.t_symbol!=" THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM v_operation;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n’êtes pas autorisés à supprimer cette opération car en temps rapproché' END) t_delete_message FROM operation;

CREATE VIEW v_account AS SELECT *,
(SELECT MAX(s.d_date) FROM interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE,
(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;

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_account_displayname AS SELECT *,
(SELECT t_displayname FROM v_bank_displayname WHERE account.rd_bank_id=v_bank_displayname.id)||'-'||t_name AS t_displayname FROM account;

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_displayname AS SELECT *, t_fullname AS t_displayname FROM category;

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 *,
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_unitvalue_display AS SELECT *,
IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=unitvalue.rd_unit_id)),'' AS t_UNIT,
STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH,
STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;

CREATE VIEW v_suboperation_display 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_displayname AS SELECT *,
t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;

CREATE VIEW v_operation_display_all AS SELECT *,
(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,
(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,
(SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,
(SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,
(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE,
(CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dépense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS,
STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK,
STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,
STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' ELSE '3' END) AS d_DATEQUARTER,
STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER,
STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR,
(SELECT count(*) FROM v_recurrentoperation s WHERE s.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_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;

CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';

CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';

CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;

CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crdit' WHEN 'A' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status!='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_SOON, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.d_date<=date('now') AND s.t_template='N') AS f_TODAYAMOUNT, (SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;

CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;

CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autoris  d’effacer ce suivant car utilis par des opérations rapprochées' END) t_delete_message FROM refund;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o_r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *, (SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o_r_refund_id=refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o_r_refund_id=refund.id) AS d_LASTDATE FROM 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 autoris de supprimer ce tiers car utilis 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 autoris de 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 v_category_display_tmp.t_fullname||' percent sign %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like v_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 v_category_display_tmp.t_fullname) THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN v_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'D' WHEN v_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'R' END) AS t_TYPEREVENUE, (CASE WHEN v_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'D' WHEN v_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'R' END) AS t_TYPEREVENUENLN FROM v_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)||' %' 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 'Natif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLSP, (SELECT f_quantity||'\%') AS t_WHATNLSP, (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 * FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLSP||' '||t_WHATNLSP||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;

CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10 THEN '-'||i_month ELSE '-'||i_month END)) 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' AND 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, v_budgetrule_displayname.id) AS t_RULES FROM budget;

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 v_budget_tmp;

CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_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_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)||' > '||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;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);
<table>
<thead>
<tr>
<th>Table Name</th>
<th>ID Type</th>
<th>Primary Key</th>
<th>Columns</th>
</tr>
</thead>
<tbody>
<tr>
<td>mfo:Enclosure</td>
<td>INTEGER</td>
<td>PRIMARY KEY</td>
<td>ID, mfo:remoteLink, mfo:remoteLink:graph, mfo:groupId, mfo:groupId:graph, mfo:localLink, mfo:localLink:graph, mfo:optional, mfo:optional:graph</td>
</tr>
<tr>
<td>mfo:FeedMessage</td>
<td>INTEGER</td>
<td>PRIMARY KEY</td>
<td>ID, mfo:downloadedTime, mfo:downloadedTime:graph, mfo:downloadedTime:localDate, mfo:downloadedTime:localTime</td>
</tr>
<tr>
<td>mfo:FeedMessage_mfo:enclosureList</td>
<td>INTEGER</td>
<td></td>
<td>ID, mfo:enclosureList, mfo:enclosureList:graph</td>
</tr>
<tr>
<td>mfo:FeedType</td>
<td>INTEGER</td>
<td>PRIMARY KEY</td>
<td>ID, mfo:name, mfo:name:graph</td>
</tr>
<tr>
<td>mlo:GeoBoundingBox</td>
<td>INTEGER</td>
<td>PRIMARY KEY</td>
<td>ID</td>
</tr>
<tr>
<td>mlo:GeoBoundingBox_mlo:bbNorthWest</td>
<td>INTEGER</td>
<td></td>
<td>ID, mlo:bbNorthWest, mlo:bbNorthWest:graph</td>
</tr>
<tr>
<td>mlo:GeoBoundingBox_mlo:bbSouthEast</td>
<td>INTEGER</td>
<td></td>
<td>ID, mlo:bbSouthEast, mlo:bbSouthEast:graph</td>
</tr>
<tr>
<td>mlo:GeoLocation</td>
<td>INTEGER</td>
<td>PRIMARY KEY</td>
<td>ID</td>
</tr>
<tr>
<td>mlo:GeoLocation_mlo:asBoundingBox</td>
<td>INTEGER</td>
<td></td>
<td>ID, mlo:asBoundingBox, mlo:asBoundingBox:graph</td>
</tr>
<tr>
<td>mlo:GeoLocation_mlo:asGeoPoint</td>
<td>INTEGER</td>
<td></td>
<td>ID, mlo:asGeoPoint, mlo:asGeoPoint:graph</td>
</tr>
<tr>
<td>mlo:GeoLocation_mlo:asPostalAddress</td>
<td>INTEGER</td>
<td></td>
<td>ID, mlo:asPostalAddress, mlo:asPostalAddress:graph</td>
</tr>
<tr>
<td>mlo:GeoPoint</td>
<td>INTEGER</td>
<td>PRIMARY KEY</td>
<td>ID</td>
</tr>
<tr>
<td>mlo:GeoPoint_mlo:address</td>
<td>INTEGER</td>
<td></td>
<td>ID, mlo:address, mlo:address:graph</td>
</tr>
</tbody>
</table>

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,
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, "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:involvedContact: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: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, "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
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,
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: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,
    "ncal:wkst" INTEGER, "ncal:wkst:graph" INTEGER, "ncal:interval"
    INTEGER, "ncal:interval:graph" INTEGER, "ncal:count" INTEGER,
    "ncal:count:graph" INTEGER, "ncal:freq" INTEGER, "ncal:freq:graph"
    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: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: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: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:ContactList_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_ncal:anniversary" (ID INTEGER NOT NULL, "ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL, "ncal:birthday" INTEGER NOT NULL, "ncal:birthday: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_scal:anniversary" (ID INTEGER NOT NULL, "scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL, "scal:birthday" INTEGER NOT NULL, "scal:birthday: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: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:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
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, "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);
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: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);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph" INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER, "nfo:equipmentSoftware" TEXT COLLATE NOCASE, "nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER, "nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER, "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER, "nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
   "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY,
   "nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER,
   "nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER,
   "nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph" INTEGER,
   "nfo:regionOfInterestHeight" REAL,
   "nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType"
   INTEGER, "nfo:roiRefersTo" INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY,
   "nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER,
   "nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER,
   "nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER,
   "nfo:softwareCmdLine" TEXT COLLATE NOCASE,
   "nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY,
   "nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph"
   INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
   "nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph"
   INTEGER, "nfo:programmingLanguage" TEXT COLLATE NOCASE,
   "nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT COLLATE NOCASE,
   "nfo:definesClass:graph" INTEGER,
   "nfo:definesFunction" TEXT COLLATE NOCASE,
   "nfo:definesFunction:graph" INTEGER, "nfo:definesGlobalVariable" TEXT COLLATE NOCASE,
   "nfo:definesGlobalVariable:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
   "nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
   "nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
   "nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
   "nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount"
   INTEGER, "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate"
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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: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:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL, "nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" 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:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
"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" INTEGER, "nmo:communicationChannel:graph" INTEGER,
"nmo:deliveryStatus" INTEGER, "nmo:deliveryStatus:graph" INTEGER,
"nmo:reportDelivery" INTEGER, "nmo:reportDelivery:graph" INTEGER,
"nmo:mustAnswerReportRead:graph" INTEGER, "nmo:mmsId" TEXT COLLATE NOCASE, "nmo:mmsId:graph" INTEGER);

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" (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: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:PhoneMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:fromVCard" INTEGER, "nmo:fromVCard:graph" INTEGER, "nmo:encoding" TEXT COLLATE NOCASE, "nmo:encoding:graph" INTEGER,
"nmo:phoneMessageId" INTEGER, "nmo:phoneMessageId:graph" INTEGER,
"nmo:validityPeriod" INTEGER, "nmo:validityPeriod:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage" (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 "poi:ObjectOf Interest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Property" (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);
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);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
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: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: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" 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:boundingLatitudeMax" REAL,
    "slo:boundingLatitudeMax:graph" INTEGER, "slo:boundingLongitudeMin" REAL,
    "slo:boundingLongitudeMin:graph" INTEGER, "slo:boundingLongitudeMax" 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,
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY, "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER, "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL PRIMARY KEY, "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix" TEXT COLLATE NOCASE, "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:mountPoint:graph" 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: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_nlczn:anniversary_ID_ID" ON "nco:Contact_nlczn:anniversary" (ID, "nlczn:anniversary");
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_nco:belongsToGroup_ID_ID" ON "nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact" ("nco:nameFamily");
CREATE 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" ("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);
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, "nfo:containsBookmark");
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:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
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");
"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:PhoneMessageFolder_nmo:toVCard_ID_ID" ON
"nmo:PhoneMessageFolder_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_dc:relation_ID_ID" ON
"rdfs:Resource_dc:relation" (ID, "dc:relation");
CREATE UNIQUE INDEX "rdfs:Resource_dc:source_ID_ID" ON
"rdfs:Resource_dc:source" (ID, "dc:source");
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:belongsToCalendar_ID_ID" ON
"scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar");
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
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), 'n') 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 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") ORDER BY "1_u";

} */ Goto */

finish_test

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

<a href="copyright.html">public domain</a> and so many groups use SQLite

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.

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.

# 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 | 0
2500 - 54995000 | 5000
5500 - 64996000 | 6000

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.kenigk@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
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.
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!);

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

Jim

');

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 STRICLY 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
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.

Here is a goody for you:

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 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@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

); INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@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');

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,

[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.');
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
Fax: (415) 782-7854

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

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUnronXGate, 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>
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
'));
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,
mguinn.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

To: Darron C Giron/HOU/ECT@ECT
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.

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

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.

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

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

')

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.bradratic@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
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
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');
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 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 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'
   }
} {24 40}

do_test fts2c-1.4 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH 'mark susan'
   }
} {40}

do_test fts2c-1.5 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH 'susan mark'
   }
} {40}

do_test fts2c-1.6 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH "mark susan"
   }
} {}
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 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'
  }
} {{<b>...</b> place.? 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 fts2c-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 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: 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.germany@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"
  }
}

{Erin:
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 ... six reports:

do_test fts2c-5.2 {
    execsql {
        SELECT snippet(email) FROM email
            WHERE email MATCH 'enron OR com questar'
        }
    }
}

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.

/*
 ** 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):
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.

<p><b>Public domain</b></p>
The source code for SQLite is in the public domain. No claim of copyright

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

License: Public Domain

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1085969926_1599220664.01/0/sqlite-3.7.17-8.el7_6.1.src.rpm-cosi-expand-archive-qNPGa22P/sqlite-spec
No license file was found, but licenses were detected in source scan.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">SQLite Consortium Agreement</h1>

<p>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").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at <a href="http://www.sqlite.org/"/>http://www.sqlite.org/</a> ("SQLite"); and</p>

<p>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</p>

<p>WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and</p>

<p>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.</p>

<p>NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:</p>

<h2>1.0 Definitions</h2>

<h3>1.1 SQLite Developers</h3>
<p>The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.</p>
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.
2.2.1 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.

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.</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 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>
2.3.10 Adequate Staff
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.

2.3.11 Use Of Funds
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.

2.4 Responsibilities And Obligations Of Company

2.4.1 Funding
Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 “Fees”.

2.4.2 Copyright Disclaimer
Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees
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.

4.0 Confidentiality
4.1 Definition of Confidential Information
"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,
4.2 Non-Use and Non-Disclosure.

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. 

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

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.

<h3>6.2 Disclaimer.</h3>

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.

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

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.

<h3>7.2 Termination.</h3>

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.

<h3>7.3 Survival.</h3>
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.</p>

<h3>8.4 Severability.</h3>

<p>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.</p>

<h3>8.5 Integration.</h3>

<p>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.</p>

<h3>8.6 Counterparts.</h3>

<p>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.</p>

<h3>8.7 Governing Law.</h3>

<p>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.</p>
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.

9.0 Signatures

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>By:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Print Name:</td>
<td>Print Name:</td>
</tr>
<tr>
<td>Title:</td>
<td>Title:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SQLite itself is in the [public domain](copyright.html) and can be used for any purpose. But TH3 is proprietary and requires a license.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.
without a shared lock, other processes are free to modify the database.

# 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,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
    execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r 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}
} {1 {} 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 hi\u1234ho" {
execsql "INSERT INTO tbl1 VALUES('$word')"
}
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}
}
# Test the abs() and round() functions.

if capable !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()}}
}

if capable 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()}}

if capable 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}
}
ifcapable 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()]}
  do_test func-4.12 {
    execsql {SELECT coalesce(round(a,2),’nil’) FROM t2}
# 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);}
    } $x2
}
do_test func-4.20 {
    execsql {SELECT round(40223.49999999999999999999);}
} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.49999999999999999999);}
} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.49999999999999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.49999999999999999999, $i);}
    } {40223.5}
do_test func-4.24.$i {
    execsql {SELECT round(40224.49999999999999999999, $i);}
} {40224.5}
do_test func-4.25.$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);}
    } {1234567890124.0}
    do_test func-4.32 {
        execsql {SELECT round(1234567890123.5);}
    } {12345678901234.0}
    do_test func-4.33 {
        execsql {SELECT round(1234567890123.35,1);}
    } {1234567890123.4}
    do_test func-4.34 {
        execsql {SELECT round(99999999999994.5);}
    } {99999999999995.0}
    do_test func-4.35 {
        execsql {SELECT round(9999999999999.55,1);}
    } {9999999999999.56}
    do_test func-4.36 {
        execsql {SELECT round(9999999999999999999999999999999999999999.56);}
    } {9999999999999999999999999999999999999999.56}
}

# 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}
ifcapable !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+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
    }
    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||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
            } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
        }
        else {
            do_test func-8.3 {
                execsql {
                    CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
                    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
                } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
            }
            do_test func-8.4 {
                execsql {
                    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
                } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
            }
        }
        ifcapable compound {
            do_test func-8.5 {
                execsql {
                    SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                        UNION ALL SELECT -9223372036854775807)
                }
            }
        }
    }
}

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 -9223372036850000000)
    }
    {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;
  }
}
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 {$encoding=="UTF-16le"} {
        do_test func-9.11-utf16le {
            execsql {SELECT hex(replace('abcdefg','ef','12'))}  
            } {6100620063006400310032006700}
        do_test func-9.12-utf16le {
            execsql {SELECT hex(replace('abcdefg','a','aaa'))}  
            } {6100620063006400650066006700}
        do_test func-9.13-utf16le {
            execsql {SELECT hex(replace('aabdefg','a','aaa'))}  
            } {61006100610061061006100620063006400650066006700}
        } elseif {$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','a','aaa'))}  
                } {61626364656667}
            do_test func-9.13-utf8 {
                execsql {SELECT hex(replace('aabdefg','a','aaa'))}  
                } {616161616161626364656667}
        }

    } 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','a','aaa'))}  
            } {61626364656667}
        do_test func-9.13-utf8 {
            execsql {SELECT hex(replace('aabdefg','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 );
  }
} {{}}

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'
}
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;
  }
} {}
execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
}
do_test func-13.5 {
    execsql {
        SELECT test_auxdata('hello world', a) FROM t4;
    }
}
do_test func-13.6 {
    execsql {
        SELECT test_auxdata('hello'||'world', a) FROM t4;
    }
}
# 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]
}
# 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"}
    }
}
do_test func-14.2 {
    catch {
        db function [string repeat X 256] {return "hello"}
    }
}
do_test func-15.1 {
    catchsql {select test_error(NULL)}
}
do_test func-15.2 {
    catchsql {select test_error('this is the error message')}
}
do_test func-15.3 {
    catchsql {select test_error('this is the error message',12)}
}
do_test func-15.4 {
db errorcode
}

# 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 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
    }
    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}}

  do_test func-18.16 {
    catchsql {
      SELECT sum(x) FROM
      (SELECT 9223372036854775807 AS x UNION ALL
       SELECT -10 AS x);
    }
  }
}

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do_test func-18.17 {
catchsql {
    SELECT sum(x) FROM
    (SELECT -9223372036854775807 AS x UNION ALL
     SELECT 10 AS x);
}
}

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
ellery E460
gauss G200
ghosh G200
hilbert H416
Heilbronn H416
knuth K530
kant K530
Lloyd L300
LADD L300
Lukasiewicz L222
Lissajous L222

}
# 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}}
execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
}
} {012345678901234567890123456789012345678901234567890123456789012345678901234567890}

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)}
        } {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 {
        execsql {SELECT trim('  hi  ')};
        } {hi}
    do_test func-22.5 {
        execsql {SELECT ltrim('  hi  ')};
        } {{hi }}
    do_test func-22.6 {
        execsql {SELECT rtrim('  hi  ')};
        } {{ hi}}
    do_test func-22.7 {
        execsql {SELECT trim('  hi  ','xyz')};
        } {{ hi }}
    do_test func-22.8 {
        execsql {SELECT ltrim('  hi  ','xyz')};
        } {{ hi }}
    do_test func-22.9 {
        execsql {SELECT rtrim('  hi  ','xyz')};
        } {{ hi }}
    do_test func-22.10 {
        execsql {SELECT trim('xyxzy  hi  zzzy','xyz')};
        }
do_test func-22.11 {
  execsql {SELECT ltrim('xyxzy  hi  zzzy','xyz');}
} {{ hi  zzzy}}
do_test func-22.12 {
  execsql {SELECT rtrim('xyxzy  hi  zzzy','xyz');}
} {{xyxzy  hi  }}
do_test func-22.13 {
  execsql {SELECT trim('  hi  ','');}
} {{  hi  }}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
  do_test func-22.14 {
    execsql {SELECT hex(trim(x'c280e1bfbff48fbf6869',x'6162e1bfbfc280'))}
  } {F48FBFBF6869}
  do_test func-22.15 {
    execsql {SELECT hex(trim(x'6869c280e1bfbff48fbf61',
      x'6162e1bfbfc280f48fbf61'))}
  } {6869}
  do_test func-22.16 {
    execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1'))};}
  } {CEB2CEB3}
}
do_test func-22.20 {
  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.
#
if capable 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
  }
}
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
}
}
}
}
}(this_program_is_free_software)
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 {
excsq {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
} }
} {,.program,is,free,software}
do_test func-24.9 {
excsq {
    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 {
excsq {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
} }
} {program,is,free,software}
do_test func-24.11 {
excsq {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
} }
} {software}
do_test func-24.12 {
excsq {
    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 {
excsq {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
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 {

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catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_a(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_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_a}}
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_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_a\(0)\);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_a\(0)\)}}
do_test func-27.1 {
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 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.

/*
** 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.

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

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

2.31 0
1.23 0
1.0 0
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

Suppose the demo_data.boundary field holds some proprietary data description

# 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.
ifcapable !fts1 {
ffinish_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.

```sql
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', '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://expensesxms.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

');

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',

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'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 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&TV1=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', 'rickard.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.
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

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 13st floor.

---
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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.');
"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>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@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
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] [IMAGE] Dear SmartReminders Member,
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
Fax:(415) 782-7854

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@EUNronXGate
c: Ross Sankey/Enron@EUNronXGate, Eric Shaw/ENRON@EUNronXGate, 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)

---

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 Katy tailgate 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>

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,

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
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)', '2001 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',

Open Source Used In Cisco VIM 3.4.6 2502
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.
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

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
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 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');
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
');
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', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
bp corp\nAlbert LaMore\n281-366-4962

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\nJeff Whitnah\n713-767-5374
Relaint\nSteve McGinn\n713-207-4000

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;

} {}
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"'
  }
}
}
{40}
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'
  }
}
} {20 [2 0 42 3 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 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'
  }
}
}
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'
  }
}

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'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
  Review Enron asset base for <b>potential</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"
}
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts1c-4.8 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'ancillary load davis'
}
} {{<pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
  Variances detected.
  Variances detected in <b>Load</b> 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'
  }
} {{matt.smith@enron.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@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.

/*
** 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 simulates 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>
**  
** 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 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
** 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] 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>

**
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`.

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 default lookaside size. The `SQLITE_DBCONFIG_LOOKASIDE` verb to `sqlite3_db_config()` can be used to change the lookaside configuration on individual connections.

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.

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.

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</dt><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/ws_local/PERMITS_SQL/1085969926_1599220664.01/0/sqlite-3.7.17-8.el7_6.1.src.rpm-cosi-expand-archive-qNPGa22P/sqlite-src-3071700.zip-cosi-expand-archive-zjViev7j/sqlite-src-3071700/src/sqlite.h.in
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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.
*/

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)<print dup( )cvs print

Found in path(s):
* {cvx $error/errorname get(Error

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<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
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</h1>
<p>
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%%BeginResource: procset Adobe_CoolType_Core 2.31 0

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/*
 ** 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.
 */

1.220 crudini 0.9 2.el7ost
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1.222 usermode 1.111 5.el7

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1.229 util-linux 2.29.2.orig

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1.235 python-xstatic-jquery-tablesorter

2.14.5.1 2.el7ost

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1.236 yum 3.4.3 161.el7

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diff -rup 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 @@

A single update notice (for instance, a security fix).
```python
- 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:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
        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:
') % other._md['update_id']
    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):
        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."""
        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."""
        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."""
        un
+            if hasattr(un, '_repoid') and un._repoid is not None:
+                return un._repoid
+            else:
+                return '<unknown>'
```
# 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):
        except UpdateNoticeException, e:
            msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
            if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
            have_dup = True
            if self._vlogger:
                self._vlogger.warn("%s", msg)
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    Version 2, June 1991

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--- a/yum/update_md.py2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
                     except Errors.RepoMDError:
                         continue # No metadata found for this repo

+        self.arch_storage = ArchStorage()
+        self.archlist = self.arch_storage.archlist
+
+    def get_notices(self, name=None):
+        """ Return all notices. ""
+        if name is None:
 @@ -434,16 +438,29 @@
@@ -33,6 +33,7 @@
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This is a bundle of X.509 certificates of public Certificate Authorities
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file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.247 containers-common 0.1.40 11.el7_8

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1.249 usbredir 0.7.1 3.el7

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1.258 python-xstatic-bootstrap-scss 3.3.7.1

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Protocol Buffers for Go with Gadgets
Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.270 redhat-support-lib-python 0.9.7 6.el7

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1.277 python2-oslo-serialization 2.24.0

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1.279 gdbm 1.10 8.el7

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1.284 gperftools-libs 2.6.1 1.el7

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1.285 calico-cni-plugin 3.7.5

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1.287 openstack-nova-api 17.0.13

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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.)

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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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.

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

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

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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!
#ident "#@(#)os-bsd-os3.def1.2 06/05/14 "
###########################################################################
# Written 1998 by J. Schilling
###########################################################################
#
# Global os definitions for BSD/OS
#
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###########################################################################
MANSTYLE=bsd
#ident "#@(#)os-bsd-os.def1.2 06/05/14 "
###########################################################################
# Written 1998 by J. Schilling
###########################################################################
#
# Global os definitions for BSD/OS
#
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# file and include the License file CDDL.Schily.txt from this distribution.

include $(SRCROOT)/$(RULESDIR)/rules.prg
include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul
OSDEFS +=
CPPOPTS=-I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)
KDEFINES=-DKERNEL -D_KERNEL

#COPTDYN=-fpic
COPTDYN=
LIB_PREFIX=lib
LIB_SUFFIX=.a
#SHL_SUFFIX=.so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH=-lm
LIB_KVM=

#LDOPTS=$(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=-Wl,-R%) LDOPTS=$(LIBS_PATH) $(LDPATH) LDOPTDYN=-shared -Wl,-soname,$(TARGET)
#LNDYNLIB=@$(RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET)
LDOPTDYN=
LNDYNLIB=

#shlicc2 is not present on older or newer systems
#LDCC=@@echo "==> LINKING "$@""; shlicc2
LDCC=@@echo "==> LINKING "$@""; shlicc
#DYNL=
DYNLD=@@echo "==> LINKING dynamic library "$@""; gcc
DYNL=
RANLIB=@@echo "==> RANDOMIZING ARCHIVE "$@""; ranlib
#ident "@(#)i386-bsd-os-gcc.rul1.14 07/05/09"

###########################################################################
# Written 1998 by J. Schilling
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#
# Platform dependent MACROS for BSD/OS
#
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###########################################################################
include $(SRCROOT)/$(RULESDIR)/rules.prg
###########################################################################
include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul

OSDEFS +=
CPPOPTS=-I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)

KDEFINE=-DKERNEL -D_KERNEL

#COPTDYN=-f$pic
COPTDYN=

LIB_PREFIX=lib
LIB_SUFFIX=.a
#SHL_SUFFIX=.so.1.0
SHL_SUFFIX=
LIB_SOCKET=
LIB_MATH=-lm
LIB_KVM=

#LDOPTS=${LIBS_PATH} ${LDPATH} $(RUNPATH:-R%=-Wl,-R%)
LDOPTS=${LIBS_PATH} ${LDPATH}
#LDOPTDYN=-shared -Wl,-soname,$(TARGET)
#LNDYNLIB=@$(RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET)
LDOPTDYN=
LNDYNLIB=

RANLIB=@echo "==> RANDOMIZING ARCHIVE "$@""; ranlib

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Files from the Schily Autoconf system (GPL)
Support shell scripts for the Schily Makefile system (CDDL)
DEFAULTS/
Default files for the Schily Makefile system (CDDL)
DEFAULTS_ENG/
Default files for the Schily Makefile system (CDDL)
inc/
Support C-Files for the Schily Makefile system (CDDL)
include/
Support H-Files for the Schily Makefile system (CDDL)
RULES/
The main part of the Schily Makefilesystem (CDDL)
TARGETS/
Slot support for the Schily Makefile system (CDDL)
TEMPLATES/
Template support for the Schily Makefile system (CDDL)

For more information on the CDDL read the file CDDL.Schily.txt
For more information on the GPL read the file GPL-2.0.txt
For more information on the LGPL read the file LGPL-2.1.txt

#ident " @(#)Defaults.bsd-os 1.4 08/12/26 "

########################################################################
#
# global definitions for BSD/OS Systems
#

Open Source Used In Cisco VIM 3.4.6 3077
# Compiler stuff

# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used

DEFLINKMODE=static

# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings

#CWARNOPTS=

DEFINCDIRS=$(SRCROOT)/include
LDPATH=-L/opt/schily/lib
RUNPATH=-Rs$(INS_BASE)/lib -R/opt/schily/lib -Rs$(OLIBSDIR)Will probably not work

# Installation config stuff

#INS_BASE=/opt/schily
#INS_KBASE=/
#INS_RBASE=/
INS_BASE=/tmp/schily
INS_KBASE=/tmp/schily/root
INS_RBASE=/tmp/schily/root

DEFUMASK=002

DEFINSMODEF=444
DEFINSMODEX=755
DEFINSUSR=root
DEFINSGRP=bin
#ident "@(#)os-bsd-os.id1.3 06/05/14 "
###########################################################################
# Written 1998 by J. Schilling
###########################################################################
# OS specific MACRO definitions for BSD/OS
#
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###########################################################################
_O_ARCH=$(_O_ARCH:3.%=bsd-os3)
O_ARCH=$(O_ARCH:4.%=bsd-os)
-O_ARCH=-$(O_ARCH)
#ident "@(#) Defaults.bsd-os31.4 08/12/26 "
###########################################################################
#
# global definitions for BSD/OS Systems
#
###########################################################################
#
# Compiler stuff
#
###########################################################################
.DEFCCOM=cc
DEFFCOM=gcc
###########################################################################
#
# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
#
DEFLINKMODE=static
###########################################################################
#
# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#
###########################################################################
#CWARNOPTS=
###########################################################################

DEFINDIRS=$SRCROOT/include
#LDPATH=-L/opt/schily/lib
#RUNPATH=-R$(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR)Will probably not work

###########################################################################

# Installation config stuff
#
###########################################################################

#INS_BASE=/opt/schily
#INS_KBASE=/
#INS_RBASE=/
INS_BASE=/tmp/schily
INS_KBASE=/tmp/schily/root
INS_RBASE=/tmp/schily/root
#
DEFUMASK=002
#
DEFINSMODEF=444
DEFINSMODEX=755
DEFINSUSR=root
DEFINSGRP=bin
#ident @(#)/man-bsd.def 1.2 06/05/14
###########################################################################

# Written 1997 by J. Schilling
###########################################################################

# Definition for manual sections on BSD based systems
#
###########################################################################

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###########################################################################
MANSECT_CMD=man1
MANSECT_SYSCALL=man2
MANSECT_LIB=man3
MANSECT_FILEFORM=man5
MANSECT_HDR=man7
MANSECT_TABLES=man7
MANSECT_MACRO=man7
MANSECT_GAMES=man6
MANSECT_DEMOS=man6
MANSECT_DEVICE=man4
MANSECT_NETWORK=man4
MANSECT_ADMIN=man8
MANSECT_DRIVER=man4

MANSUFF_CMD=1
MANSUFF_SYSCALL=2
MANSUFF_LIB=3
MANSUFF_FILEFORM=5
MANSUFF_HDR=7
MANSUFF_TABLES=7
MANSUFF_MACRO=7
MANSUFF_GAMES=6
MANSUFF_DEMOS=6
MANSUFF_DEVICE=4
MANSUFF_NETWORK=4
MANSUFF_ADMIN=8
MANSUFF_DRIVER=4

#ident "@(#)Defaults.bsd-os 1.4 08/12/26 ">

# global definitions for BSD/OS Systems
#

# Compiler stuff
#

#DEFCCOM=cc
DEFCCOM=gcc

# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
#
DEFLINKMODE=static

Open Source Used In Cisco VIM 3.4.6 3081
# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#
CWARNOPTS=

DEFCODIRS=$(SRCTROOT)/include
#LDPATH=-L/opt/schily/lib
#RUNPATH=-RS(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR)Will probably not work

# Installation config stuff
#
INS_BASE=/opt/schily
INS_KBASE=/
INS_RBASE=/

#DEFUMASK=002
#DEFINSMODEF=444
DEFINSMODEX=755
DEFINSUSR=root
DEFINSGRP=bin

#ident "@(#)i386-bsd-os3-cc.rul	1.12 07/05/09 "

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# Platform dependent MACROS for BSD/OS
#

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include $(SRCROOT)/$(RULESDIR)/rules.prg

#include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul

OSDEFS +=
CPPOPTS=-I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)

KDEFINES=-DKERNEL -D_KERNEL

#COPTDYN=-fpic
COPTDYN=

LIB_PREFIX=lib
LIB_SUFFIX=.a
#SHL_SUFFIX=.so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH=-lm
LIB_KVM=

#LDOPTS=$(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%-Wl,-R%) LDOPTS=$(LIBS_PATH) $(LDPATH)
#LDOPTDYN=-shared -Wl,-soname,$(TARGET)
#LNDYNLIB=\@$(RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET)
$(PTARGET_BASE).so
LDOPTDYN=
LNDYNLIB=

#shlicc2 is not present on older or newer systems
LDCC=@echo "===> LINKING "$@""; shlicc2
LDCC=@echo "===> LINKING "$@""; shlicc
#DYNLD=\@echo "===> LINKING dynamic library "$@""; gcc
DYNLD=
RANLIB=\@echo "===> RANDOMIZING ARCHIVE "$@""; ranlib

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#include $(SRCROOT)/$(RULESDIR)/rules.prg

#include $(SRCROOT)/$(RULESDIR)/cc-gcc.rul

OSDEFS +=
CPPOPTS= -I$(ARCHDIR) -I$(OINCSDIR) $(INCDIRS:%=-I%) -I/sys $(INCDIRSX:%=-I%) $(OSDEFS)

KDEFINEs = -DKERNEL -D_KERNEL

#COPTDYN-= fpic
COPTDYN=

LIB_PREFIX=lib
LIB_SUFFIX=.a

#SHL_SUFFIX=.so.1.0
SHL_SUFFIX=

LIB_SOCKET=
LIB_MATH=-lm
LIB_KVM=

#LDOPTS=$(LIBS_PATH) $(LDPATH) $(RUNPATH:-R%=Wl,-R%)
LDOPTS=$(LIBS_PATH) $(LDPATH)

#LDOPTDYN= -shared -Wl,-soname,$(TARGET)
LDOPTDYN=

#LNDYNLIB=$(RM) $(RM_FORCE) $(PTARGET_BASE).so; $(SYMLINK) $(TARGET)
LNDYNLIB=

RANLIB=@echo "==> RANDOMIZING ARCHIVE "$@""; ranlib

#: Ident "@(#)Defaults.bsd-os31.4 08/12/26"

# global definitions for BSD/OS Systems
#

# Compiler stuff
#

#DEFCCOM=cc
DEFCCOM=gcc

# Link mode for libraries that are part of the makefile system:
# If DEFLINKMODE is set to "static", no dynamic linking will be used
# If DEFLINKMODE is set to "dynamic", dynamic linking will be used
#
###########################################################################
DEFLINKMODE=static
###########################################################################
#
# If the next line is commented out, compilation is done with max warn level
# If the next line is uncommented, compilation is done with minimal warnings
#
###########################################################################
CWARNOPTS=
DEFINCDIRS=$(SRCROOT)/include
#LDPATH=-L/opt/schily/lib
#RUNPATH=-R$(INS_BASE)/lib -R/opt/schily/lib -R$(OLIBSDIR) Will probably not work
###########################################################################
#
# Installation config stuff
#
###########################################################################
INS_BASE=/opt/schily
INS_KBASE=/
INS_RBASE=/
#
DEFUMASK=002
#
DEFINSMODEF=444
DEFINSMODEX=755
DEFINSUSR=root
DEFINSGRP=bin

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with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

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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>
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
> "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
> 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-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. :-)
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).

1.292 python-xstatic-font-awesome 4.7.0.0

3.el7ost

1.293 kibana 6.4.2
1.293.1 Available under license :

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 */

export { checkLicense } from './check_license';

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 */

const getStartBasicPath = (acknowledge) => `/_xpack/license/start_basic${ acknowledge ? '?acknowledge=true' : ''}`;

export async function startBasic(req, xpackInfo) {
  const { acknowledge } = req.query;
  const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
  const options = {
    method: 'POST',
    path: getStartBasicPath(acknowledge)
  };
  const response = await callWithRequest('GET', '/_xpack/license/start_basic', options);

  if (response.status === 200) {
    req.xpackInfo.license.licenseStatus = 'basic';
  } else {
    throw new Error(`Could not start basic license:
```

Open Source Used In Cisco VIM 3.4.6 3137
try {
    const response = await callWithRequest(req, 'transport.request', options);
    /*eslint camelcase: 0*/
    const { basic_was_started } = response;
    if (basic_was_started) {
        await xpackInfo.refreshNow();
    }
    return response;
} catch (error) {
    return error.body;
}

@import (reference) '~ui/styles/variables/colors';

.licenseFeature {
    flex-grow: 1;
    background: @globalColorLightestGray;
    min-height: 100vh;
}

.licenseManagement__pageBody {
    padding-top: 24px;
    min-height: auto;
}

.licenseManagement__pageContent {
    flex-grow: 0; // Temporary fix for EUI bug.
}

.licenseManagement__contain {
    margin: auto;
}

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 */

export * from './util';

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 */

export function checkLicense(xpackLicenseInfo) {
    const pluginName = 'Index Management';
// If, for some reason, we cannot get the license information
// from Elasticsearch, assume worst case and disable
if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
        isAvailable: false,
        showLinks: true,
        enableLinks: false,
        message: `You cannot use ${pluginName} because license information is not available at this time.``
    };
}

const VALID_LICENSE_MODES = [
    'trial',
    'basic',
    'standard',
    'gold',
    'platinum' ];

const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
const isLicenseActive = xpackLicenseInfo.license.isActive();
const licenseType = xpackLicenseInfo.license.getType();

// License is not valid
if (!isLicenseModeValid) {
    return {
        isAvailable: false,
        showLinks: false,
        message: `Your ${licenseType} license does not support ${pluginName}. Please upgrade your license.``
    };
}

// License is valid but not active
if (!isLicenseActive) {
    return {
        isAvailable: false,
        showLinks: true,
        enableLinks: false,
        message: `You cannot use ${pluginName} because your ${licenseType} license has expired.``
    };
}

// License is valid and active
return {
    isAvailable: true,
    showLinks: true,
    enableLinks: true
import { write, read } from '../lib';

export const UpdateLicenseFileTask = {
  description: 'Updating LICENSE.txt file',
  async run(config, log, build) {
    if (build.isOss()) {
      log.info('Copying Apache 2.0 license to LICENSE.txt');
      await write(
        build.resolvePath('LICENSE.txt'),
        await read(config.resolveFromRepo('licenses/APACHE-LICENSE-2.0.txt'))
      );
    } else {
      log.info('Copying Elastic license to LICENSE.txt');
      await write(
        build.resolvePath('LICENSE.txt'),
        await read(config.resolveFromRepo('licenses/ELASTIC-LICENSE.txt'))
      );
    }
  },
};

}
export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Watcher UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      isAvailable: false,
      showLinks: true,
      enableLinks: false,
      message: 'You cannot use Watcher because license information is not available at this time.'
    };
  }

  const VALID_LICENSE_MODES = [
    'trial',
    'standard',
    'gold',
    'platinum'
  ];

  const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
  const isLicenseActive = xpackLicenseInfo.license.isActive();
  const licenseType = xpackLicenseInfo.license.getType();

  // License is not valid
  if (!isLicenseModeValid) {
    return {
      isAvailable: false,
      showLinks: false,
      message: `Your ${licenseType} license does not support Watcher. Please upgrade your license.`
    };
  }

  // License is valid but not active
  if (!isLicenseActive) {
    return {
      isAvailable: false,
      showLinks: true,
      enableLinks: false,
      message: `You cannot use Watcher because your ${licenseType} license has expired.`
    };
  }

  // License is valid and active
  return {
    isAvailable: true,
    showLinks: true,
    enableLinks: true
  };
}
export { PLUGIN } from './plugin';
export { BASE_PATH } from './base_path';

import { Provider } from 'react-redux';
import { licenseManagementStore } from '../..//public/store/store';
import React from 'react';
import { mount } from 'enzyme';

const highExpirationMillis = new Date('October 13, 2099 00:00:00Z').getTime();

export const createMockLicense = (type, expiryDateInMillis = highExpirationMillis) => {
  return {
    type, 
    expiryDateInMillis, 
    isActive: new Date().getTime() < expiryDateInMillis 
  };
};

export const getComponent = (initialState, Component) => {
  const store = licenseManagementStore(initialState);
  return mount(<Provider store={store}>
    <Component />
  </Provider>);
};

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 */

*/
import { mirrorPluginStatus } from '../../../../../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
    const xpackMainPlugin = server.plugins.xpack_main;
    const indexManagementPlugin = server.plugins.index_management;

    mirrorPluginStatus(xpackMainPlugin, indexManagementPlugin);
    xpackMainPlugin.status.once('green', () => {
        // Register a function that is called whenever the xpack info changes,
        // to re-compute the license check results for this plugin
        xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
    });
}

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*/

import { resolve } from 'path';
import { readFile } from 'fs';
import { fromNode as fcb } from 'bluebird';
import glob from 'glob';

export async function getBundledNotices(packageDirectory) {
    const pattern = resolve(packageDirectory, '*{LICENSE,NOTICE}*');
    const paths = await fcb(cb => glob(pattern, cb));
    return Promise.all(
        paths.map(async path => {
            path,
            text: await fcb(cb => readFile(path, 'utf8', cb)),
        }));
}
import { once } from 'lodash';
import { wrapCustomError } from '../error_wrappers';
import { PLUGIN } from '../../../common/constants';

export const licensePreRoutingFactory = once((server) => {
  const xpackMainPlugin = server.plugins.xpack_main;

  // License checking and enable/disable logic
  function licensePreRouting(request, reply) {
    const licenseCheckResults = xpackMainPlugin.info.feature(PLUGIN.ID).getLicenseCheckResults();
    if (!licenseCheckResults.isAvailable) {
      const error = new Error(licenseCheckResults.message);
      const statusCode = 403;
      const wrappedError = wrapCustomError(error, statusCode);
      reply(wrappedError);
    } else {
      reply();
    }
  }

  return licensePreRouting;
});

const getLicensePath = (acknowledge) => `/_xpack/license${ acknowledge ? '?acknowledge=true' : '' };``

export async function putLicense(req, xpackInfo) {
  const { acknowledge } = req.query;
  const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
  const options = {
    method: 'POST',
    path: getLicensePath(acknowledge),
    body: req.payload
  };
  try {
const response = await callWithRequest(req, 'transport.request', options);
const { acknowledged, license_status: licenseStatus } = response;
if (acknowledged && licenseStatus === 'valid') {
    await xpackInfo.refreshNow();
}
return response;
} catch (error) {
    return error.body;
}
}

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*/

import './management_section';
import './register_route';
import './styles/main.less';

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import { resolve } from 'path';
import { PLUGIN } from './common/constants';
import { registerLicenseRoute, registerStartTrialRoutes, registerStartBasicRoute } from
"./server/routes/api/license/";

export function licenseManagement(kibana) {
    return new kibana.Plugin(
        id: PLUGIN.ID,
        publicDir: resolve(__dirname, 'public'),
        require: ['kibana', 'elasticsearch'],
        uiExports: {
            managementSections: [
                'plugins/license_management',
            ],
        },
        init: (server) => {
            registerLicenseRoute(server);
            registerStartTrialRoutes(server);
            registerStartBasicRoute(server);
        }
    );
}
import { mirrorPluginStatus } from '../../../../../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
  const xpackMainPlugin = server.plugins.xpack_main;
  const grokdebuggerPlugin = server.plugins[PLUGIN.ID];

  mirrorPluginStatus(xpackMainPlugin, grokdebuggerPlugin);
  xpackMainPlugin.status.once('green', () => {
    // Register a function that is called whenever the xpack info changes,
    // to re-compute the license check results for this plugin
    xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
  });
}

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IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

let mockLicenseInfo;
beforeEach(() => mockLicenseInfo = {});

describe('license information is undefined', () => {
  beforeEach(() => mockLicenseInfo = undefined);

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license information is not available', () => {
  beforeEach(() => mockLicenseInfo.isAvailable = () => false);

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});
describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));
  });

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to true', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
    });

    it('should set showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
    });

    it('should set enableLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
    });

    it('should not set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
    });
  });

  describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
    });

    it('should set enableLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });
});
describe('& license is basic', () => {
  beforeEach(i => set(mockLicenseInfo, 'license.isOneOf', () => false));

  describe('& license is active', () => {
    beforeEach(i => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });

  describe('& license is expired', () => {
    beforeEach(i => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });
}):

import Boom from 'boom';
export function wrapEsError(err) {
  const statusCode = err.statusCode;
  if (statusCode === 403) {
    return Boom.forbidden('Insufficient user permissions for adding a license.');
  }
  return Boom.boomify(err, err.statusCode);
}

import { management } from 'ui/management';
import { BASE_PATH } from '../common/constants';

management.getSection('elasticsearch').register('license_management', {
  visible: true,
  display: 'License Management',
  order: 4,
  url: `#${BASE_PATH}home`
});

import { StartTrial } from '../public/sections/license_dashboard/start_trial';
import { createMockLicense, getComponent } from './util';

describe('StartTrial component when trial is allowed', () => {
  test('display for basic license', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('basic'),
        trialStatus: { canStartTrial: true }
      },
      StartTrial
    );
    expect(rendered.html()).toMatchSnapshot();
  });
});
test('should display for gold license', () => {
    const rendered = getComponent(
    {
        license: createMockLicense('gold'),
        trialStatus: { canStartTrial: true }
    },
    StartTrial
    );
    expect(rendered.html()).toMatchSnapshot();
});

test('should not display for trial license', () => {
    const rendered = getComponent(
    {
        license: createMockLicense('trial'),
        trialStatus: { canStartTrial: true }
    },
    StartTrial
    );
    expect(rendered.html()).toBeNull();
});

test('should not display for active platinum license', () => {
    const rendered = getComponent(
    {
        license: createMockLicense('platinum'),
        trialStatus: { canStartTrial: true }
    },
    StartTrial
    );
    expect(rendered.html()).toBeNull();
});

test('should display for expired platinum license', () => {
    const rendered = getComponent(
    {
        license: createMockLicense('platinum', 0),
        trialStatus: { canStartTrial: true }
    },
    StartTrial
    );
    expect(rendered.html()).toMatchSnapshot();
});

describe('StartTrial component when trial is not available', () => {
    test('should not display for basic license', () => {
        const rendered = getComponent(
        {
            license: createMockLicense('basic'),
        },
        StartTrial
        );
        expect(rendered.html()).toBeNull();
    });
});
trialStatus: { canStartTrial: false }
);
StartTrial
);
expect(rendered.html()).toBeNull();
}

test('should not display for gold license', () => {
const rendered = getComponent(
{
   license: createMockLicense('gold'),
   trialStatus: { canStartTrial: false }
},
StartTrial
);
expect(rendered.html()).toBeNull();
}

test('should not display for platinum license', () => {
const rendered = getComponent(
{
   license: createMockLicense('platinum'),
   trialStatus: { canStartTrial: false }
},
StartTrial
);
expect(rendered.html()).toBeNull();
}

test('should not display for trial license', () => {
const rendered = getComponent(
{
   license: createMockLicense('gold'),
   trialStatus: { canStartTrial: false }
},
StartTrial
);
expect(rendered.html()).toBeNull();
}

"*/

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*/

import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';
describe('check_license', function () {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is undefined', () => {
        beforeEach(() => mockLicenseInfo = undefined);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });

        it('should set showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });

    describe('license information is not available', () => {
        beforeEach(() => mockLicenseInfo.isAvailable = () => false);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });

        it('should set showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });

    describe('license information is available', () => {
        beforeEach(() => {
            mockLicenseInfo.isAvailable = () => true;
        });

        it('should set isAvailable to true', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
        });

        it('should set showLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
        });

        it('should set enableLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });
});
describe('& license is trial, standard, gold, platinum', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to true', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
    });

    it('should set showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
    });

    it('should set enableLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
    });

    it('should not set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
    });
  });

  describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it('should set showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
    });

    it('should set enableLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });
});

describe('& license is basic', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.getType', () => 'basic'));
});
beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

describe('& license is active', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

  it('should set isAvailable to true', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set enableLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

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import expect from 'expect.js';
import { licensePreRoutingFactory } from '../license_pre_routing_factory';

describe('license_pre_routing_factory', () => {
  describe('#reportingFeaturePreRoutingFactory', () => {
    let mockServer;
    let mockLicenseCheckResults;

    beforeEach(() => {
      mockServer = {
        plugins: {
          xpack_main: {
            info: {
              feature: () => ({
                getLicenseCheckResults: () => mockLicenseCheckResults
              })
            }
          }
        }
      }
    });

    it('only instantiates one instance per server', () => {
      const firstInstance = licensePreRoutingFactory(mockServer);
      const secondInstance = licensePreRoutingFactory(mockServer);

      expect(firstInstance).to.be(secondInstance);
    });

    describe('isAvailable is false', () => {
      beforeEach(() => {
        mockLicenseCheckResults = {
          isAvailable: false
        };  
      });

      it('replies with 403', (done) => {
        const licensePreRouting = licensePreRoutingFactory(mockServer);
        const stubRequest = {};
        licensePreRouting(stubRequest, (response) => {

          done();
        });
      });
    });
  });
});
expect(response).to.be.an(Error);
expect(response.isBoom).to.be(true);
expect(response.output.statusCode).to.be(403);
done();
});

describe('isAvailable is true', () => {
  beforeEach(() => {
    mockLicenseCheckResults = {
      isAvailable: true
    };
  });

  it ('replies with nothing', (done) => {
    const licensePreRouting = licensePreRoutingFactory(mockServer);
    const stubRequest = {};
    licensePreRouting(stubRequest, (response) => {
      expect(response).to.be(undefined);
      done();
    });
  });

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  */

  import { putLicense } from '../../../lib/license';
  import { wrapEsError } from '../../../lib/wrap_es_error';

  export function registerLicenseRoute(server) {
    const xp包Info = server.plugins.xpack_main.info;
    server.route({
      path: '/api/license',
      method: 'PUT',
      handler: (request, reply) => {
        return putLicense(request, xp包Info)
          .then(reply, e => reply(wrapEsError(e)));
      }
    });
  }

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import { createAction } from 'redux-actions';
import { startBasic } from '../../lib/es';
import { toastNotifications } from 'ui/notify';

export const startBasicLicenseStatus = createAction('LICENSE_MANAGEMENT_START_BASIC_LICENSE_STATUS');

export const cancelStartBasicLicense = createAction('LICENSE_MANAGEMENT_CANCEL_START_BASIC_LICENSE');

export const startBasicLicense = (currentLicenseType, ack) => async (dispatch, getState, { xPackInfo }) => {
  /*eslint camelcase: 0*/
  const { acknowledged, basic_was_started, error_message, acknowledge } = await startBasic(ack);
  if (acknowledged) {
    if (basic_was_started) {
      await xPackInfo.refresh();
      // reload necessary to get left nav to refresh with proper links
      window.location.reload();
    } else {
      return toastNotifications.addDanger(error_message);
    }
  } else {
    //messages coming back in arrays
    const messages = Object.values(acknowledge).slice(1).map((item) => {
      return item[0];
    });
    const first = 'Some functionality will be lost if you replace your
    ${currentLicenseType.toUpperCase()} license with a
    BASIC license. Review the list of features below.';
    dispatch(startBasicLicenseStatus({ acknowledge: true, messages: [ first, ...messages] }));
  }
};

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 */
export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Machine Learning UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      isAvailable: false,
      showLinks: true,
      enableLinks: false,
      message: 'You cannot use Machine Learning because license information is not available at this time.'
    };
  }

  const featureEnabled = xpackLicenseInfo.feature('ml').isEnabled();
  if (!featureEnabled) {
    return {
      isAvailable: false,
      showLinks: false,
      enableLinks: false,
      message: 'Machine Learning is unavailable'
    };
  }

  const VALID_LICENSE_MODES = ['trial', 'platinum'];
  const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
  const isLicenseActive = xpackLicenseInfo.license.isActive();
  const licenseType = xpackLicenseInfo.license.getType();

  // License is not valid
  if (!isLicenseModeValid) {
    return {
      isAvailable: false,
      showLinks: false,
      enableLinks: false,
      message: `Your ${licenseType} license does not support Machine Learning. Please upgrade your license.`
    };
  }

  // License is valid but not active
  if (!isLicenseActive) {
    return {
      isAvailable: true,
showLinks: true,
enableLinks: true,
hasExpired: true,
message: 'Your $licenseType Machine Learning license has expired.'
};
}

// License is valid and active
return {
  isAvailable: true,
  showLinks: true,
  enableLinks: true,
  hasExpired: false,
};

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import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

  let mockLicenseInfo;
  beforeEach(() => mockLicenseInfo = {});

describe('license information is undefined', () => {
  beforeEach(() => mockLicenseInfo = undefined);

  it('should set enableLink to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
  });

  it('should set enableAPIRoute to false', () => {
    expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('license information is not available', () => {
  beforeEach(() => mockLicenseInfo.isAvailable = () => false);

  it('should set enableLink to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
  });

  it('should set enableAPIRoute to false', () => {
    expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

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it('should set enableLink to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
});

it('should set enableAPIRoute to false', () => {
    expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
});

it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

describe('license information is available', () => {
    beforeEach(() => mockLicenseInfo = {
        isAvailable: () => true,
        license: {
            getType: () => 'foobar'
        }
    });

    describe('& license is active', () => {
        beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

        it('should set enableLink to true', () => {
            expect(checkLicense(mockLicenseInfo).enableLink).to.be(true);
        });

        it('should set enableAPIRoute to true', () => {
            expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(true);
        });

        it('should NOT set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
        });
    });

    describe('& license is expired', () => {
        beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

        it('should set enableLink to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLink).to.be(false);
        });

        it('should set enableAPIRoute to false', () => {
            expect(checkLicense(mockLicenseInfo).enableAPIRoute).to.be(false);
        });
    });
});
it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

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*/

import { getInstalledPackages } from '../src/dev/npm';
import {
  assertLicensesValid,
  LICENSE_WHITELIST,
  LICENSE_OVERRIDES,
} from '../src/dev/license_checker';

export default function licenses(grunt) {
  grunt.registerTask('licenses', 'Checks dependency licenses', async function () {
    const done = this.async();

    try {
      const dev = Boolean(grunt.option('dev'));

      assertLicensesValid({
        packages: await getInstalledPackages({
          directory: grunt.config.get('root'),
          licenseOverrides: LICENSE_OVERRIDES,
          dev
        }),
        validLicenses: LICENSE_WHITELIST
      });
    });
  });
}
done();
} catch (err) {
  grunt.fail.fatal(err);
  done(err);
}
});
}
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export { licensePreRoutingFactory } from './license_pre_routing_factory';
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export async function canStartTrial(req) {
  const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
  const options = {
    method: 'GET',
    path: '/_xpack/license/trial_status'
  };
  try {
    const response = await callWithRequest(req, 'transport.request', options);
    const { eligible_to_start_trial } = response;
    return eligible_to_start_trial;
  } catch (error) {
    return error.body;
  }
}

export async function startTrial(req, xpackInfo) {
  const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('admin');
  const options = {
    method: 'POST',
    path: '/_xpack/license/start_trial?acknowledge=true'
  };
  try {
    /*eslint camelcase: 0*/
    const response = await callWithRequest(req, 'transport.request', options);
    const { trial_was_started } = response;
    if (trial_was_started) {
      await xpackInfo.refreshNow();
    }
    return response;
  }
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import { createAction } from 'redux-actions';
import { addLicense } from '../actions/add_license';
import { BASE_PATH } from '../../../common/constants/base_path';
import { putLicense } from '../../lib/es';
import { addUploadErrorMessage } from './add_error_message';

export const uploadLicenseStatus = createAction('LICENSE_MANAGEMENT_UPLOAD_LICENSE_STATUS');

const genericUploadError = 'Error encountered uploading license:

const dispatchFromResponse = async (response, dispatch, currentLicenseType, newLicenseType, { xPackInfo, kbnUrl }) => {
  const { error, acknowledged, license_status: licenseStatus, acknowledge } = response;
  if (error) {
    dispatch(uploadLicenseStatus({}));
    dispatch(addUploadErrorMessage(`${genericUploadError} ${error.reason}`));
  } else if (acknowledged) {
    if (licenseStatus === 'invalid') {
      dispatch(uploadLicenseStatus({}));
      dispatch(addUploadErrorMessage('The supplied license is not valid for this product.'));
    } else if (licenseStatus === 'expired') {
      dispatch(uploadLicenseStatus({}));
      dispatch(addUploadErrorMessage('The supplied license has expired.'));
    } else {
      await xPackInfo.refresh();
      dispatch(addLicense(xPackInfo.get('license')));
      dispatch(uploadLicenseStatus({}));
      kbnUrl.change(BASE_PATH);
      // reload necessary to get left nav to refresh with proper links
      window.location.reload();
    }
  } else {
    // first message relates to command line interface, so remove it
    const messages = Object.values(acknowledge).slice(1);
    // messages can be in nested arrays
    const first = `Some functionality will be lost if you replace your
    ${currentLicenseType.toUpperCase()} license with a
    ${newLicenseType.toUpperCase()} license. Review the list of features below.`;
export const uploadLicense = (licenseString, currentLicenseType, acknowledge) => async (dispatch, getState, services) => {
  dispatch(uploadLicenseStatus({ applying: true }));
  let newLicenseType = null;
  try {
    ({ type: newLicenseType } = JSON.parse(licenseString).license);
  } catch (err) {
    dispatch(uploadLicenseStatus({}));
    return dispatch(addUploadErrorMessage(`${genericUploadError} Check your license file.`));
  }
  try {
    const response = await putLicense(licenseString, acknowledge);
    await dispatchFromResponse(response, dispatch, currentLicenseType, newLicenseType, services);
  } catch (err) {
    dispatch(uploadLicenseStatus({}));
    dispatch(addUploadErrorMessage(`${genericUploadError} ${message}`));
  }
};

import React from 'react';

export default (props) => <div>{props.children}</div>;
const isLicenseActive = xpackLicenseInfo.license.isActive();
const licenseType = xpackLicenseInfo.license.getType();

// License is not valid
if (!isLicenseActive) {
    return {
        enableLink: false,
        enableAPIRoute: false,
        message: `You cannot use the Grok Debugger because your ${licenseType} license has expired.`
    };
}

// License is valid and active
return {
    enableLink: true,
    enableAPIRoute: true
};

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*/

import { writeFileSync } from 'fs';
import { resolve } from 'path';
import { getInstalledPackages } from '../src/dev/npm';
import { LICENSE_OVERRIDES } from '../src/dev/license_checker';

import {
isNull,
isUndefined
}
} from 'lodash';
const allDoubleQuoteRE = /"/g;
function escapeValue(value) {
if (isNull(value)) {
return;
}
return `"${value.replace(allDoubleQuoteRE, '""')}"`;
}
function formatCsvValues(fields, values) {
return fields.map((field) => {
const value = values[field];
if (isNull(value) || isUndefined(value)) {
return null;
}
return value.toString();
})
.map(escapeValue)
.join(',');
}
export default function licensesCSVReport(grunt) {
grunt.registerTask('licenses:csv_report', 'Report of 3rd party dependencies', async function () {
const fields = ['name', 'version', 'url', 'license'];
const done = this.async();
try {
const file = grunt.option('csv');
const directory = grunt.option('directory');
const dev = Boolean(grunt.option('dev'));
const packages = await getInstalledPackages({
directory: directory ? resolve(directory) : grunt.config.get('root'),
licenseOverrides: LICENSE_OVERRIDES,
dev
});
const csv = packages.map(pkg => {
const data = {
name: pkg.name,
version: pkg.version,
url: pkg.repository || `https://www.npmjs.com/package/${pkg.name}`,
license: pkg.licenses.join(',')

Open Source Used In Cisco VIM 3.4.6 3171


return formatCsvValues(fields, data).join('
');
}

if (file) {
  writeFileSync(file, `${fields.join(',')}
${csv}`);
  grunt.log.writeln(`wrote to ${file}`);
} else {
  grunt.log.writeln(csv);
  grunt.log.writeln('
specify "--csv [filepath]" to write the data to a specific file');
}

done();
} catch (err) {
  grunt.fail.fatal(err);
  done(err);
}

export function registerStartBasicRoute(server) {
  const xpackInfo = server.plugins.xpack_main.info;
  server.route({
    path: '/api/license/start_basic',
    method: 'POST',
    handler: (request, reply) => {
      return startBasic(request, xpackInfo)
        .then(reply, e => reply(wrapEsError(e)));
    }
  });
}
import expect from 'expect.js';
import sinon from 'sinon';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', () => {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is undefined', () => {
        beforeEach(() => mockLicenseInfo = undefined);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });

        it('should set showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });

    describe('license information is not available', () => {
        beforeEach(() => mockLicenseInfo.isAvailable = () => false);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });

        it('should set showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });

});
it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to(be(false));
});

it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to(be(true));
});

it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to(be(false));
});

it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not(be(undefined));
});

describe('license information is available', () => {
    beforeEach(() => {
        mockLicenseInfo.isAvailable = () => true;
        set(mockLicenseInfo, 'license.getType', () => 'basic')
    });

    describe('& ML is disabled in Elasticsearch', () => {
        beforeEach(() => {
            set(mockLicenseInfo, 'feature', sinon.stub().withArgs('ml').returns({ isEnabled: () => false }));
        });

        it('should set showLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to(be(false));
        });

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to(be(false));
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to(be(false));
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not(be(undefined));
        });
    });

    describe('& ML is enabled in Elasticsearch', () => {
        beforeEach(() => {
            set(mockLicenseInfo, 'feature', sinon.stub().withArgs('ml').returns({ isEnabled: () => true }));
        });

        it('should set showLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).showLinks).to(be(false));
        });

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to(be(false));
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to(be(false));
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not(be(undefined));
        });
    });

});
describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to true', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
    });

    it ('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
    });

    it ('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
    });

    it('should not set a message', () => {
        expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
    });
});

describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set isAvailable to true', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
    });

    it ('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
    });

    it ('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
    });

    it('should set a message', () => {
        expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
});

describe('& license is basic', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

    it('should set isAvailable to true', () => {
        expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
    });

    it ('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showLinks).to.be(true);
    });

    it ('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
    });

    it('should not set a message', () => {
        expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
    });
});
describe('& license is active', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set showLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).showLinks).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

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*/

import expect from 'expect.js';
import Boom from 'boom';
import { licensePreRoutingFactory } from '../license_pre_routing_factory';

describe('license_pre_routing_factory', () => {
  describe('#grokDebuggerFeaturePreRoutingFactory', () => {

});
let mockServer;
let mockLicenseCheckResults;

beforeEach(() => {
  mockServer = {
    plugins: {
      xpack_main: {
        info: {
          feature: () => ({
            getLicenseCheckResults: () => mockLicenseCheckResults
          })
        }
      }
    }
  }
});

describe('isAvailable is false', () => {
  beforeEach(() => {
    mockLicenseCheckResults = {
      isAvailable: false
    };
  });

  it ('replies with 403', (done) => {
    const licensePreRouting = licensePreRoutingFactory(mockServer);
    const stubRequest = {};
    licensePreRouting(stubRequest, (response) => {
      expect(response).to.be.an(Error);
      expect(response.isBoom).to.be(true);
      expect(response.output.statusCode).to.be(403);
      done();
    });
  });
});

describe('isAvailable is true', () => {
  beforeEach(() => {
    mockLicenseCheckResults = {
      isAvailable: true
    };
  });

  it ('replies with nothing', (done) => {
    const licensePreRouting = licensePreRoutingFactory(mockServer);
    const stubRequest = {};
    licensePreRouting(stubRequest, (response) => {
      expect(response).to.eql(Boom.forbidden());
    });
  });
});
done();
});
});
});
));

.kuiNotice {
  padding: 40px 60px 48px;
  margin: 20px;
  background-color: $noticeBackgroundColor;
  line-height: $kuiLineHeight;
}

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 */

import { licensePreRoutingFactory } from'../../../lib/license_pre_routing_factory';

/*
 In order for the client to have the most up-to-date snapshot of the current license,
 it needs to make a round-trip to the kibana server. This refresh endpoint is provided
 for when the client needs to check the license, but doesn't need to pull data from the
 server for any reason, i.e., when adding a new watch.
 */
export function registerRefreshRoute(server) {
  const licensePreRouting = licensePreRoutingFactory(server);

  server.route(
    { path: '/api/watcher/license/refresh',
      method: 'GET',
      handler: (request, reply) => {
        reply({ success: true });
      },
      config: { pre: [licensePreRouting]
    }
  );
}

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 */

import { canStartTrial, startTrial } from'../../../lib/start_trial';
import { wrapEsError } from'../../../lib//wrap_es_error';
export function registerStartTrialRoutes(server) {
    const xpackInfo = server.plugins.xpack_main.info;
    server.route(
        path: '/api/license/start_trial',
        method: 'GET',
        handler: (request, reply) => {
            return canStartTrial(request)
                .then(reply, e => reply(wrapEsError(e)));
        });
    server.route(
        path: '/api/license/start_trial',
        method: 'POST',
        handler: (request, reply) => {
            return startTrial(request, xpackInfo)
                .then(reply, e => reply(wrapEsError(e)));
        });
    }
}

import * as createAction from 'redux-actions';

export const addLicense =
    createAction('LICENSE_MANAGEMENT_ADD_LICENSE');

import Boom from 'boom';
import { PLUGIN } from '../../../common/constants';
export const licensePreRoutingFactory = (server) => {
    const xpackMainPlugin = server.plugins.xpack_main;

    // License checking and enable/disable logic
    function licensePreRouting(request, reply) {
        const licenseCheckResults = xpackMainPlugin.info.feature(PLUGIN.ID).getLicenseCheckResults();
        if (!licenseCheckResults.enableAPIRoute) {
            reply(Boom.forbidden(licenseCheckResults.message));
        } else {
            reply();
        }
    }

    return licensePreRouting;
};

$noticeBackgroundColor: #FFF;
$noticeTitleFontSize: 22px;

@import "notice";
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 */

import uiRoutes from 'ui/routes';
import { routeInitProvider } from 'plugins/monitoring/lib/route_init';
import template from './index.html';
import { LicenseViewController } from './controller';

uiRoutes.when('/license', {
    template,
    resolve: {
        clusters: (Private) => {
            const routeInit = Private(routeInitProvider);
            return routeInit();
        },
        controllerAs: 'licenseView',
        controller: LicenseViewController
    });
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 */

export { LicenseStatus } from './license_status.container';
exports['RevertToBasic component should display when license is about to expire 1'] = ''<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Revert to Basic license</span><div class="euiText euiText--small euiCard__description"><p>You’ll revert to our free features and lose access to security, machine learning and other Platinum features</p></div></span><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="revertToBasicButton">Revert to Basic</button></span></div></div>";

exports['RevertToBasic component should display when license is expired 1'] = ''<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Revert to Basic license</span><div class="euiText euiText--small euiCard__description"><p>You’ll revert to our free features and lose access to security, machine learning and other Platinum features</p></div></span><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="revertToBasicButton">Revert to Basic</button></span></div></div>";

exports['RevertToBasic component should display when trial is active 1'] = ''<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Revert to Basic license</span><div class="euiText euiText--small euiCard__description"><p>You’ll revert to our free features and lose access to security, machine learning and other Platinum features</p></div></span><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="revertToBasicButton">Revert to Basic</button></span></div></div>";

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 */

import React from 'react';
import { createInitialDataSelector } from './helpers';
import { Request } from 'react-redux-request';
import { loadLicense } from '../../services/rest/apm';

const ID = 'license';
const INITIAL_DATA = {
features: {
  watcher: { isAvailable: false },
  ml: { isAvailable: false }
},
license: { isActive: false }
}
const withInitialData = createInitialDataSelector(INITIAL_DATA);

export function getLicense(state) {
  return withInitialData(state.reactReduxRequest[ID]);
}

export function LicenceRequest({ render }) {
  return (
    <Request id={ID} fn={loadLicense} selector={getLicense} render={render} />
  );
}

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 * under the License.
 */

import { generatePackageNoticeText } from './generate_package_notice_text';
import { generateNodeNoticeText } from './generate_node_notice_text';

/**
 * When given a list of packages and the directory to the
 * node distribution that will be shipping with Kibana,
 * generates the text for NOTICE.txt
 *
 * @param {Object} [options={}]  
 *   @property {Array<Package>} options.packages List of packages to check, see  
 *     getInstalledPackages() in ./packages  
 *   @property {string} options.nodeDir The directory containing the version of node.js  
 *     that will ship with Kibana  
 * @return {undefined}
 */
export async function generateBuildNoticeText(options = {}) {
  
}
const { packages, nodeDir, nodeVersion, noticeFromSource } = options;

const packageNotices = await Promise.all(
  packages.map(generatePackageNoticeText)
);

return [
  noticeFromSource,
  ...packageNotices,
  generateNodeNoticeText(nodeDir, nodeVersion),
].join('n---n');

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import { get, find } from 'lodash';
import React from 'react';
import { render, unmountComponentAtNode } from 'react-dom';
import chrome from 'ui/chrome';
import { formatDateTimeLocal } from '../../../common/formatting';
import { MANAGEMENT_BASE_PATH } from 'plugins/xpack_main/components';
import { License } from 'plugins/monitoring/components';
import { timefilter } from 'ui/timefilter';

const REACT_NODE_ID = 'licenseReact';

export class LicenseViewController {
  constructor($injector, $scope) {
    timefilter.disableTimeRangeSelector();
    timefilter.disableAutoRefreshSelector();

    $scope.$on('destroy', () => {
      unmountComponentAtNode(document.getElementById(REACT_NODE_ID));
    });

    this.init($injector, $scope);
  }

  init($injector, $scope) {
    const globalState = $injector.get('globalState');
    const title = $injector.get('title');
    const $route = $injector.get('$route');
    const cluster = find($route.current.locals.clusters, { cluster_uuid: globalState.cluster_uuid });
    $scope.cluster = cluster;
  }
}
title($scope.cluster, 'License');

this.license = cluster.license;
this.isExpired = Date.now() > get(cluster, 'license.expiry_date_in_millis');
this.isPrimaryCluster = cluster.isPrimary;

const basePath = chrome.getBasePath();
this.uploadLicensePath = basePath + '/app/kibana#' + MANAGEMENT_BASE_PATH + 'upload_license';

this.renderReact($scope);
}

renderReact($scope) {
  $scope.$evalAsync(() => {
    const { isPrimaryCluster, license, isExpired, uploadLicensePath } = this;
    let expiryDate = license.expiry_date_in_millis;
    if (license.expiry_date_in_millis !== undefined) {
      expiryDate = formatDateTimeLocal(license.expiry_date_in_millis);
    }

    // Mount the React component to the template
    render(
      <License
        isPrimaryCluster={isPrimaryCluster}
        status={license.status}
        type={license.type}
        isExpired={isExpired}
        expiryDate={expiryDate}
        uploadLicensePath={uploadLicensePath}
      />,
      document.getElementById(REACT_NODE_ID)
    );
  });
}

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 */

import { LicenseStatus as PresentationComponent } from './license_status';
import { connect } from 'react-redux';
import { getLicense, getExpirationDateFormatted, isExpired } from '../../../store/reducers/licenseManagement';

const mapStateToProps = (state) => {
  const { isActive, type } = getLicense(state);
  return {
    ...
status: isActive ? 'Active' : 'Inactive',
type,
isExpired: isExpired(state),
expiryDate: getExpirationDateFormatted(state)
};
};

export const LicenseStatus = connect(mapStateToProps)(PresentationComponent);

// Jest Snapshot v1, https://goo.gl/fbAQLP

exports['UploadLicense should display a modal when license requires acknowledgement 1'] = `<Provider
store={
  Object {
    "dispatch": [Function],
    "getState": [Function],
    "replaceReducer": [Function],
    "subscribe": [Function],
    Symbol(observable): [Function],
  }
}
>
<Connect(UploadLicense)>
<UploadLicense
  addUploadErrorMessage=[[Function]]
  applying={false}
  currentLicenseType=""
  errorMessage=""
  isInvalid={false}
  messages={
    Array [
      "Some functionality will be lost if you replace your
      TRIAL license with a
      BASIC license. Review the list of features below.",
      Array [
        "Watcher will be disabled",
      ],
    ]
  }
  needsAcknowledgement={true}
  uploadLicense=[[Function]]
  uploadLicenseStatus=[[Function]]
>
<div
  className="licenseManagement__contain"
>
  <EuiFlexGroup
    alignItems="stretch"
  >
    <div
      className="licenseManagement__contain"
Upload your license
Some functionality will be lost if you replace your TRIAL license with a BASIC license. Review the list of features below.

- Watcher will be disabled
Open Source Used In Cisco VIM 3.4.6 3190
Your license key is a JSON file with a signature attached.

Uploading a license will replace your current license.
Select or drag your license file
store={
    Object {
        "dispatch": [Function],
        "getState": [Function],
        "replaceReducer": [Function],
        "subscribe": [Function],
        Symbol(observable): [Function],
        ...
    }
}

<Connect(UploadLicense)>
<UploadLicense
    addUploadErrorMessage=[Function]
    applying={false}
    currentLicenseType=""
    errorMessage="The supplied license has expired."
    isInvalid={false}
    needsAcknowledgement={false}
    uploadLicense=[Function]
    uploadLicenseStatus=[Function]
>
<div
    className="licenseManagement__contain"
>
    <EuiFlexGroup
        alignItems="stretch"
        component="div"
        direction="row"
        gutterSize="l"
        justifyContent="spaceAround"
        responsive={true}
        wrap={false}
    >
    <div
        className="euiFlexItem euiFlexItem--flexGrowZero"
    >
        <EuiTitle
            size="l"
            >
            <h1
            >
            <h1
Upload your license

Your license key is a JSON file with a signature attached.

Uploading a license will replace your current license.

Uploading a license will replace your current license.
The supplied license has expired.

Please address the errors in your form.

- The supplied license has expired.
Open Source Used In Cisco VIM 3.4.6 3202

exports['UploadLicense should display an error when ES says license is invalid 1'] = '');

<Provider
  store={
    Object {
      "dispatch": [Function],
      "getState": [Function],
      "replaceReducer": [Function],
      "subscribe": [Function],
      "__proto": Object
    }
  }
</Provider>

EuiButton
  color="primary"
  data-test-subj="uploadLicenseButton"
  fill={true}
  iconSide="left"
  isLoading={false}
  onClick={[Function]}
  type="button"
>
<button
  className="euiButton euiButton--primary euiButton--fill"
  data-test-subj="uploadLicenseButton"
  onClick={[Function]}
  type="button"
>
  <span
    className="euiButton__content"
  >
    <span
      className="euiButton__text"
    >
      Upload
    </span>
  </span>
</button>
</EuiButton>
</EuiForm>
</EuiPanel>
</div>
</UploadLicense>
</Connect(UploadLicense)>
</Provider>


Symbol(observable): [Function],
}
}
>
<Connect(UploadLicense)>
<UploadLicense
    addUploadErrorMessage={[Function]}
    applying={false}
    currentLicenseType=""
    errorMessage="The supplied license is not valid for this product."
    isInvalid={false}
    needsAcknowledgement={false}
    uploadLicense={[Function]}
    uploadLicenseStatus={[Function]}
>
    <div
        className="licenseManagement__contain"
    >
        <EuiFlexGroup
            alignItems="stretch"
            component="div"
            direction="row"
            gutterSize="l"
            justifyContent="spaceAround"
            responsive={true}
            wrap={false}
        >
        
            <EuiFlexItem
                component="div"
                grow={false}
            >
                <div
                    className="euiFlexItem euiFlexItem--flexGrowZero"
                >
                    <EuiTitle
                        size="l"
                    >
                        <h1
                            className="euiTitle euiTitle--large"
                        >
                            Upload your license
                        </h1>
                    </EuiTitle>
                </div>
            </EuiFlexItem>
        </EuiFlexGroup>
    </div>
</UploadLicense>
Your license key is a JSON file with a signature attached.

Uploading a license will replace your current license.
Array
  "The supplied license is not valid for this product."
]
isInvalid={true}
>
<
  className="euiForm"
>
<EuiCallOut
  className="euiForm__errors"
  color="danger"
  size="m"
  title="Please address the errors in your form."
>
  <div
    className="euiCallOut__danger__errors"
  >
    <div
      className="euiCallOutHeader"
    >
      Please address the errors in your form.
    </div>
    <EuiText
grow={true}
  size="s"
  >
    <ul
      >
      <li
        className="euiForm__error"
        key="The supplied license is not valid for this product."
      >
        The supplied license is not valid for this product.
      </li>
    </ul>
  </EuiText>
</EuiCallOut>
</div>
</EuiForm>
exports['UploadLicense should display an error when submitting invalid JSON 1'] =

<Provider
store=
Object {
  "dispatch": [Function],
  "getState": [Function],
  "replaceReducer": [Function],
  "subscribe": [Function],
  Symbol(observable): [Function],
}
>
<Connect(UploadLicense)>
<UploadLicense>
addUploadErrorMessage=[[Function]]
applying={false}
currentLicenseType=""
errorMessage="Error encountered uploading license: Check your license file."
isInvalid={false}
needsAcknowledgement={false}
uploadLicense=[[Function]]
uploadLicenseStatus=[[Function]]

<EuiFlexGroup
alignItems="stretch"
component="div"
direction="row"
gutterSize="l"
justifyContent="spaceAround"
responsive={true}
wrap={false}
>
<div
className="licenseManagement__contain"
>
<applying={false}
cursor="default"
error="Error encountered uploading license: Check your license file."
files=""/>
Your license key is a JSON file with a signature attached.

Uploading a license will replace your current license.

Error encountered uploading license: Check your license file.
Please address the errors in your form.

Error encountered uploading license: Check your license file.

Try again...
Object {
    "fill": undefined,
}
viewBox="0 0 16 16"
width="16"
xmlns="http://www.w3.org/2000/svg"
<path
d="M9 10.114l1.85-1.943a.52.52 0 0 1 .77 0c.214.228.214.6 0 .829l-1.95 2.05a1.552 1.552 0 1-2.31 0L5.41 9a.617.617 0 1 0-.829.52 0 0 1 .77 0L8 10.082V1.556C8 1.249 8.224 1 8.5
1s.5.249.5.556v8.558zM4.18 6a.993.993 0 0 0-.972.804l-1.189 6A.995.995 0 0 0 2.991 14h11.018a1 1 0 0 0 .972-1.196l-1.19-6a.993.993 0 0 0-.97-.804H4.185v1h5V5h1.825c.946 0 1.76.73 1.946 1.608l.19 6A2 0 0 1
14.01615H2.984a.992 1.992 0 0 1-1.945-2.392l1.19-6C2.414 5.673 3.229 5 4.174 5H6z"
/></svg>
</importAction>
</EuiIcon>
<div
className="euiFilePicker__promptText"
>
Select or drag your license file
</div>
</div>
</div>
</EuiFilePicker>
</div>
</EuiText>
<div
className="euiSpacer euiSpacer--"m"
>
</div>
</EuiSpacer>
</EuiFlexGroup
alignItems="stretch"
component="div"
direction="row"
gutterSize=""l"
justifyContent="spaceBetween"
responsive={true}
wrap={false}
>
</div>
</EuiFlexGroup>

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Open Source Used In Cisco VIM 3.4.6  3215
exports['UploadLicense should display error when ES returns error 1'] =
  <Provider store={
    Object {
      "dispatch": [Function],
      "getState": [Function],
      "replaceReducer": [Function],
      "subscribe": [Function],
      Symbol(observable): [Function],
    }
  }
  >
  <Connect(UploadLicense)>
  <UploadLicense
    addUploadErrorMessage={[Function]}
    applying={[false]}
    currentLicenseType=""
    errorMessage="Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled"
    isInvalid={[false]}
  >
needsAcknowledgement={false}
uploadLicense={[Function]}
uploadLicenseStatus={[Function]}

> 
<div 
className="licenseManagement__contain"
>
<EuiFlexGroup 
alignItems="stretch"
component="div"
direction="row"
gutterSize="l"
justi"Content="spaceAround"
responsive={true}
wrap={false}
>
> 
<div 
className="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround
euiFlexGroup--directionRow euiFlexGroup--responsive"
>
<
EuiFlexItem 
component="div"
grow={false}
>
> 
<div 
className="euiFlexItem euiFlexItem--flexGrowZero"
>
<EuiTitle 
size="l"
>

<h1 
className="euiTitle euiTitle--large"
>

Upload your license

</h1>
</EuiTitle>
</div>
</EuiFlexItem>
</div>
</EuiFlexGroup>

<EuiSpacer 
size="l"
>
> 
<div 
className="euiSpacer euiSpacer--l"
/>
</EuiSpacer>
<EuiPanel
Your license key is a JSON file with a signature attached.

Uploading a license will replace your current license.

Uploading a license will replace your current

Uploading a license will replace your current

Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled."
Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled

Error encountered uploading license: Can not upgrade to a production license unless TLS is configured or security is disabled
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{  
  "name": "bar",  
  "version": "1.0.0",  
  "license": "MIT"  
}

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*/

import { contains } from 'lodash';
import { uiModules } from 'ui/modules';
import { ML_SUPPORTED_LICENSES } from './common/constants';

class LicenseService {
  constructor() {
    // do not initialize with usable state
    this.license = {
      type: null,
      expiry_date_in_millis: -Infinity
    };
  }

  // we're required to call this initially
  setLicense(license) {
    this.license = license;
  }

  isBasic() {
    return this.license.type === 'basic';
  }

  mlIsSupported() {
    return contains(ML_SUPPORTED_LICENSES, this.license.type);
  }

  doesExpire() {
    const { expiry_date_in_millis: expiryDateInMillis } = this.license;
    return expiryDateInMillis !== undefined;
  }

  isActive() {
    const { expiry_date_in_millis: expiryDateInMillis } = this.license;
    return (new Date()).getTime() < expiryDateInMillis;
  }

  isExpired() {
    if (this.doesExpire()) {
      const { expiry_date_in_millis: expiryDateInMillis } = this.license;
      return (new Date()).getTime() >= expiryDateInMillis;
    }
    return false;
  }
}

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import { connect } from 'react-redux';
import { uploadLicense, uploadLicenseStatus } from '../../store/actions/upload_license';
import { addUploadErrorMessage } from '../../store/actions/add_error_message';
import {
    getUploadErrorMessage,
    getLicenseType,
    isInvalid,
    isApplying,
    uploadNeedsAcknowledgement,
    uploadMessages
} from '../../store/reducers/licenseManagement';
import { UploadLicense as PresentationComponent } from './upload_license';

const mapStateToProps = (state) => {
    return {
        isInvalid: isInvalid(state),
        needsAcknowledgement: uploadNeedsAcknowledgement(state),
        messages: uploadMessages(state),
        errorMessage: getUploadErrorMessage(state),
        applying: isApplying(state),
        currentLicenseType: getLicenseType(state) || ''
    };
};

const mapDispatchToProps = {
    addUploadErrorMessage,
    uploadLicense,
    uploadLicenseStatus,
};

export const UploadLicense = connect(mapStateToProps, mapDispatchToProps)(PresentationComponent);

// Jest Snapshot v1, https://goo.gl/fbAQLP

exports['StartTrial component when trial is allowed display for basic license 1'] = `"<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Start a 30-day trial</span><div class="euiText euiText--small euiCard__description"><p>Experience what security, machine learning, and all our other<a class="euiLink euiLink--primary" href="https://www.elastic.co/subscriptions/xpack" target="_blank" rel="noopener noreferrer">Platinum features</a> have to offer.</p></div></span><span class="euiCard__footer"><button class="euiButton euiButton--primary" type="button" data-test-subj="startTrialButton"><span class="euiButton__content"><span class="euiButton__text">Start trial</span></span></button></span></div></div>"`;

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exports['StartTrial component when trial is allowed should display for expired platinum license 1'] = `"<div class="euiFlexItem"\>\<div class="euiCard euiCard--centerAligned"\>\<span class="euiCard__content"\>\<span class="euiTitle euiTitle--medium euiCard__title"\>Start a 30-day trial</span>\<div class="euiText euiText--small euiCard__description"\>\<p>Experience what security, machine learning, and all our other https://www.elastic.co/subscriptions/xpack/" target="_blank" rel="noopener noreferer"">Platinum features have to offer.</p>\</span>\<span class="euiCard__footer"\>\<button class="euiButton euiButton--primary" type="button" data-test-subj="startTrialButton"\>Start trial</button>\</span>\</div>\</div>"`;
exports['StartTrial component when trial is allowed should display for gold license 1'] = `"<div class="euiFlexItem"\>\<div class="euiCard euiCard--centerAligned"\>\<span class="euiCard__content"\>\<span class="euiTitle euiTitle--medium euiCard__title"\>Start a 30-day trial</span>\<div class="euiText euiText--small euiCard__description"\>\<p>Experience what security, machine learning, and all our other https://www.elastic.co/subscriptions/xpack/" target="_blank" rel="noopener noreferer"">Platinum features have to offer.</p>\</span>\<span class="euiCard__footer"\>\<button class="euiButton euiButton--primary" type="button" data-test-subj="startTrialButton"\>Start trial</button>\</span>\</div>\</div>"`;

```javascript
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*/

/**
 * @typedef {Object} LicenseCheckResult Result of the license check.
 * @property {boolean} showLogin Indicates whether we show login page or skip it.
 * @property {boolean} allowLogin Indicates whether we allow login or disable it on the login page.
 * @property {boolean} showLinks Indicates whether we show security links throughout the kibana app.
 * @property {boolean} allowRoleDocumentLevelSecurity Indicates whether we allow users to define document level security in roles.
 * @property {boolean} allowRoleFieldLevelSecurity Indicates whether we allow users to define field level security in roles.
 * @property {string} [loginMessage] Message to show at the login page.
 * @property {string} [linksMessage] Message to show when security links are clicked throughout the kibana app.
 */

/* Returns object that defines behavior of the security related areas (login page, user management etc.) based on the license information extracted from the xPackInfo.
 * @param {XPackInfo} xPackInfo XPackInfo instance to extract license information from.
 * @returns {LicenseCheckResult}
*/
export function checkLicense(xPackInfo) {
```
// If, for some reason, we cannot get license information from Elasticsearch, // assume worst-case and lock user at login screen.
if (!xPackInfo.isAvailable()) {
    return {
        showLogin: true,
        allowLogin: false,
        showLinks: false,
        allowRoleDocumentLevelSecurity: false,
        allowRoleFieldLevelSecurity: false,
        allowRbac: false,
        layout: xPackInfo.isXpackUnavailable() ? 'error-xpack-unavailable' : 'error-es-unavailable'
    };
}

const isLicenseBasic = xPackInfo.license.isOneOf(['basic']);
const isEnabledInES = xPackInfo.feature('security').isEnabled();
if (!isEnabledInES || isLicenseBasic) {
    return {
        showLogin: false,
        allowLogin: false,
        showLinks: false,
        allowRoleDocumentLevelSecurity: false,
        allowRoleFieldLevelSecurity: false,
        allowRbac: false,
        linksMessage: isLicenseBasic
            ? 'Your Basic license does not support Security. Please upgrade your license.'
            : 'Access is denied because Security is disabled in Elasticsearch.'
    };
}

const isLicensePlatinumOrTrial = xPackInfo.license.isOneOf(['platinum', 'trial']);
return {
    showLogin: true,
    allowLogin: true,
    showLinks: true,
    // Only platinum and trial licenses are compliant with field- and document-level security.
    allowRoleDocumentLevelSecurity: isLicensePlatinumOrTrial,
    allowRoleFieldLevelSecurity: isLicensePlatinumOrTrial,
    allowRbac: true,
};

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under the License.
*/

import { resolve } from 'path';
import { readFileSync } from 'fs';

export function generateNodeNoticeText(nodeDir, nodeVersion) {
    const licensePath = resolve(nodeDir, 'LICENSE');
    const license = readFileSync(licensePath, 'utf8');
    return `This product bundles Node.js v${nodeVersion}.\n\n${license}`;
}

@import (reference) '~ui/styles/variables/colors';

.tab-license {
    background: @globalColorLightestGray;
}

.licenseFeature {
    flex-grow: 1;
    background: @globalColorLightestGray;
    min-height: 100vh;
}

.licenseManagement__pageBody {
    padding-top: 24px;
    min-height: auto;
}

.licenseManagement__pageContent {
    flex-grow: 0; // Temporary fix for EUI bug.
}

.licenseManagement__contain {
    margin: auto;
}

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import React from 'react';
import { BASE_PATH } from '../../../common/constants';
import {
  EuiButton,
  EuiButtonEmpty,
  EuiFilePicker,
  EuiForm,
  EuiSpacer,
  EuiConfirmModal,
  EuiOverlayMask,
  EuiText,
  EuiTitle,
  EuiFlexGroup,
  EuiFlexItem,
  EuiPanel
} from '@elastic/eui';

export class UploadLicense extends React.PureComponent {
  constructor(props) {
    super(props);
    this.state = {
      acknowledge: false
    };
  }

  componentDidMount() {
    this.props.addUploadErrorMessage('');
  }

  send = acknowledge => {
    const file = this.file;
    const fr = new FileReader();
    fr.onload = ({ target: { result } }) => {
      this.props.uploadLicense(
        result,
        this.props.currentLicenseType,
        acknowledge
      );
    };
    fr.readAsText(file);
  };

  cancel = () => {
    this.props.uploadLicenseStatus({});
  };

  acknowledgeModal() {
    const {
      needsAcknowledgement,
      messages: [firstLine, ...messages] = []
    } = this.props;
    if (!needsAcknowledgement) {
      return null;
    }

    return (
      <EuiOverlayMask>
        <EuiConfirmModal
          title={'License Upload'}
          onClose={this.cancel}
          confirmText={'OK'}
          onConfirm={this.send}
          dismissable={true}
          buttons={[
            <EuiButtonEmpty key='cancel'>Cancel</EuiButtonEmpty>,
            <EuiButton key='confirm'>Confirm</EuiButton>
          ]}
          
          <EuiText>
            {messages.map((message, index) => (index === 0 ? message : `
              ${message}
            `))}
          
          </EuiText>
        </EuiConfirmModal>
      </EuiOverlayMask>
    );
  }
}
Your license key is a JSON file with a signature attached.

Uploading a license will replace your current '{ '}
{currentLicenseType.toUpperCase()} license.

Uploading... 
Upload
exports[`AddLicense component when license is active should display correct verbiage`] = ``
  <div class="euiCard euiCard--centerAligned">
    <span class="euiCard__content">
      <span class="euiTitle euiTitle--medium euiCard__title">Update your license</span>
      <div class="euiText euiText--small euiCard__description">
        If you already have a new license, upload it now.
      </div>
    </span>
    <span class="euiCard__footer">
      <a class="euiButton euiButton--primary" href="#/management/elasticsearch/license_management/upload_license" data-test-subj="updateLicenseButton" style="margin-top: auto;">Update license</a>
    </span>
  </div>``;

exports[`AddLicense component when license is expired should display with correct verbiage`] = ``
  <div class="euiCard euiCard--centerAligned">
    <span class="euiCard__content">
      <span class="euiTitle euiTitle--medium euiCard__title">Update your license</span>
      <div class="euiText euiText--small euiCard__description">
        If you already have a new license, upload it now.
      </div>
    </span>
    <span class="euiCard__footer">
      <a class="euiButton euiButton--primary" href="#/management/elasticsearch/license_management/upload_license" data-test-subj="updateLicenseButton" style="margin-top: auto;">Update license</a>
    </span>
  </div>``;

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*/

import { EventEmitter } from 'events';
import { watchStatusAndLicenseToInitialize, RETRY_SCALE_DURATION, RETRY_DURATION_MAX } from './watch_status_and_license_to_initialize';

const createMockXpackMainPluginAndFeature = (featureId) => {
  const licenseChangeCallbacks = [];

  const mockFeature = {
    getLicenseCheckResults: jest.fn(),
    mock: {
      triggerLicenseChange: () => {
        for (const callback of licenseChangeCallbacks) {
          callback();
        }
      },
      setLicenseCheckResults: (value) => {
        mockFeature.getLicenseCheckResults.mockReturnValue(value);
      }
    }
  }

  const mockXpackMainPlugin = {
    info: {
      ...
onLicenseInfoChange: (callback) => {
  licenseChangeCallbacks.push(callback);
},

feature: (id) => {
  if (id === featureId) {
    return mockFeature;
  }
  throw new Error('Unexpected feature');
},

status: new EventEmitter(),

mock: {
  setStatus: (state, message) => {
    mockXpackMainPlugin.status.state = state;
    mockXpackMainPlugin.status.message = message;
    mockXpackMainPlugin.status.emit('change', null, null, state, message);
  }
}

return { mockXpackMainPlugin, mockFeature };;

const createMockDownstreamPlugin = (id) => {
  const defaultImplementation = () => { throw new Error('Not implemented'); }; 
  return {
    id,
    status: {
      disabled: jest.fn().mockImplementation(defaultImplementation),
      yellow: jest.fn().mockImplementation(defaultImplementation),
      green: jest.fn().mockImplementation(defaultImplementation),
      red: jest.fn().mockImplementation(defaultImplementation),
    },
  };
};

const advanceRetry = async (initializeCount) => {
  await Promise.resolve();
  let duration = initializeCount * RETRY_SCALE_DURATION;
  if (duration > RETRY_DURATION_MAX) {
    duration = RETRY_DURATION_MAX;
  }
  jest.advanceTimersByTime(duration);
};

['red', 'yellow', 'disabled'].forEach(state => {
  test(`mirrors ${state} immediately`, () => {
    const pluginId = 'foo-plugin';
const message = '{state} is now the state';
const {mockXpackMainPlugin} = createMockXpackMainPluginAndFeature(pluginId);
mockXpackMainPlugin.mock.setStatus(state, message);
const downstreamPlugin = createMockDownstreamPlugin(pluginId);
const initializeMock = jest.fn();
downstreamPlugin.status[state].mockImplementation(() => { });

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).not.toHaveBeenCalled();
expect(downstreamPlugin.status[state]).toHaveBeencalledTimes(1);
expect(downstreamPlugin.status[state]).toHaveBeencalledWith(message);

});
});

test('calls initialize and doesn’t immediately set downstream status when the initial status is green’, () => {
const pluginId = 'foo-plugin';
const {mockXpackMainPlugin, mockFeature} = createMockXpackMainPluginAndFeature(pluginId);
mockXpackMainPlugin.mock.setStatus('green', 'green is now the state');
const licenseCheckResults = Symbol();
mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
const downstreamPlugin = createMockDownstreamPlugin(pluginId);
const initializeMock = jest.fn().mockImplementation(() => new Promise(() => { }));

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).toHaveBeencalledTimes(1);
expect(initializeMock).toHaveBeencalledWith(licenseCheckResults);
expect(downstreamPlugin.status[state].green).toHaveBeencalledTimes(0);
});

test('sets downstream plugin’s status to green when initialize resolves, (done) => {
const pluginId = 'foo-plugin';
const {mockXpackMainPlugin, mockFeature} = createMockXpackMainPluginAndFeature(pluginId);
mockXpackMainPlugin.mock.setStatus('green', 'green is now the state');
const licenseCheckResults = Symbol();
mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
const downstreamPlugin = createMockDownstreamPlugin(pluginId);
const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).toHaveBeencalledTimes(1);
expect(initializeMock).toHaveBeencalledWith(licenseCheckResults);
downstreamPlugin.status.green.mockImplementation(actualMessage => {
  expect(actualMessage).toBe('Ready');
  done();
});
test('sets downstream plugin’s status to red when initialize initially rejects, and continually polls initialize’, (done) => {
    jest.useFakeTimers();

    const pluginId = 'foo-plugin';
    const errorMessage = 'the error message';
    const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
    mockXpackMainPlugin.mock.setStatus('green');
    const licenseCheckResults = Symbol();
    mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
    const downstreamPlugin = createMockDownstreamPlugin(pluginId);

    let isRed = false;
    let initializeCount = 0;
    const initializeMock = jest.fn().mockImplementation() => {
        ++initializeCount;

        // on the second retry, ensure we already set the status to red
        if (initializeCount === 2) {
            expect(isRed).toBe(true);
        }

        // this should theoretically continue indefinitely, but we only have so long to run the tests
        if (initializeCount === 100) {
            done();
        }
    }

    // everytime this is called, we have to wait for a new promise to be resolved
    // allowing the Promise the we return below to run, and then advance the timers
    setImmediate(() => {
        advanceRetry(initializeCount);
    });
    return Promise.reject(new Error(errorMessage));
});

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).toHaveBeenCalledTimes(1);
expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
downstreamPlugin.status.red.mockImplementation(message => {
    isRed = true;
    expect(message).toBe(errorMessage);
});

});

test('sets downstream plugin’s status to green when initialize resolves after rejecting 10 times’, (done) => {

jest.useFakeTimers();

const pluginId = 'foo-plugin';
const errorMessage = 'the error message';
const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
mockXpackMainPlugin.mock.setStatus('green');
const licenseCheckResults = Symbol();
mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
const downstreamPlugin = createMockDownstreamPlugin(pluginId);

let initializeCount = 0;
const initializeMock = jest.fn().mockImplementation(() => {
  ++initializeCount;

  // everytime this is called, we have to wait for a new promise to be resolved
  // allowing the promise the we return below to run, and then advance the timers
  setImmediate(() => {
    advanceRetry(initializeCount);
  });

  if (initializeCount >= 10) {
    return Promise.resolve();
  }

  return Promise.reject(new Error(errorMessage));
});

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

expect(initializeMock).toHaveBeenCalledTimes(1);
expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
downstreamPlugin.status.red.mockImplementation(message => {
  expect(initializeCount).toBeLessThan(10);
  expect(message).toBe(errorMessage);
});
downstreamPlugin.status.green.mockImplementation(message => {
  expect(initializeCount).toBe(10);
  expect(message).toBe('Ready');
  done();
});

test('calls initialize twice when it gets a new license and the status is green', (done) => {
  const pluginId = 'foo-plugin';
  const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
  mockXpackMainPlugin.mock.setStatus('green');
  const firstLicenseCheckResults = Symbol();
  const secondLicenseCheckResults = Symbol();

  const newLicenseCheckResults = Symbol();
  mockFeature.mock.setLicenseCheckResults(newLicenseCheckResults);

  downstreamPlugin.status.red.mockImplementation(message => {
    expect(initializeCount).toBeLessThan(10);
    expect(message).toBe(errorMessage);
  });
  downstreamPlugin.status.green.mockImplementation(message => {
    expect(initializeCount).toBe(10);
    expect(message).toBe('Ready');
    done();
  });
});
mockFeature.mock.setLicenseCheckResults(firstLicenseCheckResults);
const downstreamPlugin = createMockDownstreamPlugin(pluginId);
const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

let count = 0;
downstreamPlugin.status.green.mockImplementation(message => {
    expect(message).toBe('Ready');
    ++count;
    if (count === 1) {
        mockFeature.mock.setLicenseCheckResults(secondLicenseCheckResults);
        mockFeature.mock.triggerLicenseChange();
    }
    if (count === 2) {
        expect(initializeMock).toHaveBeenCalledWith(firstLicenseCheckResults);
        expect(initializeMock).toHaveBeenCalledWith(secondLicenseCheckResults);
        expect(initializeMock).toHaveBeenCalledTimes(2);
        done();
    }
});

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

jest.runAllTimers();

test(`doesn’t call initialize twice when it gets a new license when the status isn’t green`, (done) => {
    const pluginId = 'foo-plugin';
    const redMessage = 'the red message';
    const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
    mockXpackMainPlugin.mock.setStatus('green');
    const firstLicenseCheckResults = Symbol();
    const secondLicenseCheckResults = Symbol();
    mockFeature.mock.setLicenseCheckResults(firstLicenseCheckResults);
    mockFeature.mock.setLicenseCheckResults(secondLicenseCheckResults);
    const downstreamPlugin = createMockDownstreamPlugin(pluginId);
    const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

    downstreamPlugin.status.green.mockImplementation(message => {
        expect(message).toBe('Ready');
        mockXpackMainPlugin.mock.setStatus('red', redMessage);
        mockFeature.mock.setLicenseCheckResults(secondLicenseCheckResults);
        mockFeature.mock.triggerLicenseChange();
    });

    downstreamPlugin.status.red.mockImplementation(message => {
        expect(message).toBe(redMessage);
        expect(initializeMock).toHaveBeenCalledWith(firstLicenseCheckResults);
        done();
    });

    mockXpackMainPlugin.mock.setStatus('red', redMessage);
    mockFeature.mock.triggerLicenseChange();
    done();
});
watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);
});

test('calls initialize twice when the status changes to green twice', (done) => {
  const pluginId = 'foo-plugin';
  const { mockXpackMainPlugin, mockFeature } = createMockXpackMainPluginAndFeature(pluginId);
  mockXpackMainPlugin.mock.setStatus('green');
  const licenseCheckResults = Symbol();
  mockFeature.mock.setLicenseCheckResults(licenseCheckResults);
  const downstreamPlugin = createMockDownstreamPlugin(pluginId);
  const initializeMock = jest.fn().mockImplementation(() => Promise.resolve());

  let count = 0;
  downstreamPlugin.status.green.mockImplementation(message => {
    expect(message).toBe('Ready');
    ++count;
    if (count === 1) {
      mockXpackMainPlugin.mock.setStatus('green');
    }
    if (count === 2) {
      expect(initializeMock).toHaveBeenCalledWith(licenseCheckResults);
      expect(initializeMock).toHaveBeenCalledTimes(2);
      done();
    }
  });
});

watchStatusAndLicenseToInitialize(mockXpackMainPlugin, downstreamPlugin, initializeMock);

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 */

import vfs from 'vinyl-fs';
```javascript
/**
 * Generates the text for the NOTICE.txt file at the root of the
 * repo which details the licenses for code that is copied/vendored
 * into the repository.
 *
 * @param  {Object} options
 * @property {string} options.productName Name to print at the top of the notice
 * @property {ToolingLog} options.log
 * @property {string} options.directory absolute path to the repo to search for @notice comments
 * @return {string}
 */
export async function generateNoticeFromSource({ productName, directory, log }) {
  const globs = [
    '**/*.{js,less,css,ts}',
  ];

  const options = {
    cwd: directory,
    nodir: true,
    ignore: [
      '{node_modules,build,target,dist,optimize}/**',
      'packages/**/{node_modules,build,target,dist}/**',
      'x-pack/{node_modules,build,target,dist,optimize}/**',
      'x-pack/packages/**/{node_modules,build,target,dist}/**',
    ],
  }; 

  log.debug('vfs.src globs', globs);
  log.debug('vfs.src options', options);
  log.info(`Searching ${directory} for multi-line comments starting with @notice`);

  const files = vfs.src(globs, options);
  const noticeComments = [];
  await new Promise((resolve, reject) => {
    files.on('data', (file) => {
      log.verbose(`Checking for @notice comments in ${file.relative}`);
      const source = file.contents.toString('utf8');
      let match;
      while ((match = NOTICE_COMMENT_RE.exec(source)) !== null) {
        log.info(`Found @notice comment in ${file.relative}`);
        noticeComments.push(match[1]);
      }
    })
  });
```
let noticeText = '';
noticeText += `${productName}
`; 
noticeText += `Copyright 2012-${(new Date()).getUTCFullYear()} Elasticsearch B.V.
`; 
for (const comment of noticeComments.sort()) { 
  noticeText += '
---
'; 
  noticeText += comment
    .split(NEWLINE_RE)
    .map(line => ( 
      line
    // trim whitespace
    .trim()
    // trim leading * and a single space
    .replace(/(^\* ?)/, '')
    )
  .join('
')
  .trim(); 
  noticeText += '
'; 
} 

noticeText += '
'; 

log.debug(`notice text:

${noticeText}`);
return noticeText;

import { XPackInfoLicense } from './xpack_info_license';

function getXPackInfoLicense(getRawLicense) {
  return new XPackInfoLicense(getRawLicense);
}

describe('XPackInfoLicense', () => {

  const xpackInfoLicenseUndefined = getXPackInfoLicense(() => [ ]);
  let xpackInfoLicense;
  let getRawLicense;

  // Test cases go here

  it('should handle undefined', () => {
    expect(xpackInfoLicenseUndefined).to.be.undefined;
  });

  // More tests...

});

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 */
beforeEach(() => {
    getRawLicense = jest.fn();
    xpackInfoLicense = getXPackInfoLicense(getRawLicense);
});

test('getUid returns uid field', () => {
    const uid = 'abc123';

    getRawLicense.mockReturnValue({ uid });

    expect(xpackInfoLicense.getUid()).toBe(uid);
    expect(getRawLicense).toHaveBeenCalledTimes(1);

    expect(xpackInfoLicenseUndefined.getUid()).toBe(undefined);
});

test('isActive returns true if status is active', () => {
    getRawLicense.mockReturnValue({ status: 'active' });

    expect(xpackInfoLicense.isActive()).toBe(true);
    expect(getRawLicense).toHaveBeenCalledTimes(1);

    expect(xpackInfoLicenseUndefined.isActive()).toBe(false);
});

test('isActive returns false if status is not active', () => {
    getRawLicense.mockReturnValue({ status: 'aCtIvE' }); // needs to match exactly

    expect(xpackInfoLicense.isActive()).toBe(false);
    expect(getRawLicense).toHaveBeenCalledTimes(1);

    expect(xpackInfoLicenseUndefined.isActive()).toBe(false);
});

test('getExpiryDateInMillis returns expiry_date_in_millis', () => {
    getRawLicense.mockReturnValue({ expiry_date_in_millis: 123 });

    expect(xpackInfoLicense.getExpiryDateInMillis()).toBe(123);
    expect(getRawLicense).toHaveBeenCalledTimes(1);

    expect(xpackInfoLicenseUndefined.getExpiryDateInMillis()).toBe(undefined);
});

test('isOneOf returns true of the mode includes one of the types', () => {
    getRawLicense.mockReturnValue({ mode: 'platinum' });

    expect(xpackInfoLicense.isOneOf('platinum')).toBe(true);
    expect(getRawLicense).toHaveBeenCalledTimes(1);

    expect(xpackInfoLicense.isOneOf(['platinum'])).toBe(true);
});
expect(getRawLicense).toHaveBeenCalledTimes(2);
expect(xpackInfoLicense.isOneOf(['gold', 'platinum'])).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(3);
expect(xpackInfoLicense.isOneOf(['platinum', 'gold'])).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(4);
expect(xpackInfoLicense.isOneOf(['basic', 'gold'])).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(5);
expect(xpackInfoLicense.isOneOf(['basic'])).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(6);

expect(xpackInfoLicenseUndefined.isOneOf(['platinum', 'gold'])).toBe(false);

});

test('getType returns the type', () => {
  getRawLicense.mockReturnValue({ type: 'basic' });

  expect(xpackInfoLicense.getType()).toBe('basic');
  expect(getRawLicense).toHaveBeenCalledTimes(1);

  getRawLicense.mockReturnValue({ type: 'gold' });
  expect(xpackInfoLicense.getType()).toBe('gold');
  expect(getRawLicense).toHaveBeenCalledTimes(2);

  expect(xpackInfoLicenseUndefined.getType()).toBe(undefined);
});

test('getMode returns the mode', () => {
  getRawLicense.mockReturnValue({ mode: 'basic' });

  expect(xpackInfoLicense.getMode()).toBe('basic');
  expect(getRawLicense).toHaveBeenCalledTimes(1);

  getRawLicense.mockReturnValue({ mode: 'gold' });
  expect(xpackInfoLicense.getMode()).toBe('gold');
  expect(getRawLicense).toHaveBeenCalledTimes(2);

  expect(xpackInfoLicenseUndefined.getMode()).toBe(undefined);
});

const expectAbc123 = type => type === 'abc123';

test('isActiveLicense returns the true if active and typeChecker matches', () => {
  const expectAbc123 = type => type === 'abc123';

  getRawLicense.mockReturnValue({ status: 'active', mode: 'abc123' });

  expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(true);
  expect(getRawLicense).toHaveBeenCalledTimes(1);
getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'abc123' });

expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(false);
expect(getRawLicense).toBeCalledTimes(2);

getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'NOTabc123' });

expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(false);
expect(getRawLicense).toBeCalledTimes(3);

getRawLicense.mockReturnValue({ status: 'active', mode: 'NOTabc123' });

expect(xpackInfoLicense.isActiveLicense(expectAbc123)).toBe(false);
expect(getRawLicense).toBeCalledTimes(4);

expect(xpackInfoLicenseUndefined.isActive(expectAbc123)).toBe(false);

});

test('isBasic returns the true if active and basic', () => {
  getRawLicense.mockReturnValue({ status: 'active', mode: 'basic' });

  expect(xpackInfoLicense.isBasic()).toBe(true);
  expect(getRawLicense).toBeCalledTimes(1);

  getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'gold' });

  expect(xpackInfoLicense.isBasic()).toBe(false);
  expect(getRawLicense).toBeCalledTimes(2);

  getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'trial' });

  expect(xpackInfoLicense.isBasic()).toBe(false);
  expect(getRawLicense).toBeCalledTimes(3);

  getRawLicense.mockReturnValue({ status: 'active', mode: 'platinum' });

  expect(xpackInfoLicense.isBasic()).toBe(false);
  expect(getRawLicense).toBeCalledTimes(4);

  expect(xpackInfoLicenseUndefined.isBasic()).toBe(false);
});


test('isNotBasic returns the true if active and not basic', () => {
  getRawLicense.mockReturnValue({ status: 'active', mode: 'platinum' });

  expect(xpackInfoLicense.isNotBasic()).toBe(true);
expect(getRawLicense).toHaveBeenCalledTimes(1);
getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'gold' });
expect(xpackInfoLicense.isNotBasic()).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(2);
getRawLicense.mockReturnValue({ status: 'NOTactive', mode: 'trial' });
expect(xpackInfoLicense.isNotBasic()).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(3);
getRawLicense.mockReturnValue({ status: 'active', mode: 'basic' });
expect(xpackInfoLicense.isNotBasic()).toBe(false);
expect(getRawLicense).toHaveBeenCalledTimes(4);

expect(xpackInfoLicenseUndefined.isNotBasic()).toBe(false);
import React, { Fragment } from 'react';
import moment from 'moment-timezone';
import capitalize from 'lodash';
import { EuiLink } from '@elastic/eui';
const formatDateLocal = input => moment.tz(input, moment.tz.guess()).format('LL');
const WillExpireOn = ({ expiryDate }) => {
  if (expiryDate === undefined) {
    return null;
  }
  return <Fragment> will expire on {formatDateLocal(expiryDate)}</Fragment>;
};
export function LicenseText({ license, showLicenseExpiration }) {
  if (!showLicenseExpiration) {
    return null;
  }
  return (Open Source Used in Cisco VIM 3.4.6 3248
import chrome from 'ui/chrome';

import $ from 'jquery';

export function putLicense(license, acknowledge) {
    const options = {
        url: `${chrome.addBasePath('/api/license')}${acknowledge ? '?acknowledge=true' : ''}`,
        data: license,
        contentType: 'application/json',
        cache: false,
        crossDomain: true,
        type: 'PUT',
    };

    return $.ajax(options);
}

export function startBasic(acknowledge) {
    const options = {
        url: `${chrome.addBasePath('/api/license/start_basic')}${acknowledge ? '?acknowledge=true' : ''}`,
        contentType: 'application/json',
        cache: false,
        crossDomain: true,
        type: 'POST',
    };

    return $.ajax(options);
}

export function startTrial() {
    const options = {
        url: chrome.addBasePath('/api/license/start_trial'),
        contentType: 'application/json',
        cache: false,
        crossDomain: true,
        type: 'POST',
    };
}
exports[`RequestTrialExtension component should display when license is active and trial has been used 1`] = """"<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Extend your trial</span><div class="euiText euiText--small euiCard__description"><p><span>If you'd like to continuing using security, machine learning, and our other awesome features, request an extension now.</span></p></div></span><span class="euiCard__footer"><a class="euiButton euiButton--primary" href="https://www.elastic.co/trialextension" target="_blank" rel="noopener noreferrer" data-test-subj="extendTrialButton"><span class="euiButton__content"><span class="euiButton__text">Extend trial</span></span></a></span></div></div>""";

exports[`RequestTrialExtension component should display when license is not active and trial has been used 1`] = """"<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Extend your trial</span><div class="euiText euiText--small euiCard__description"><p><span>If you'd like to continuing using security, machine learning, and our other awesome features, request an extension now.</span></p></div></span><span class="euiCard__footer"><a class="euiButton euiButton--primary" href="https://www.elastic.co/trialextension" target="_blank" rel="noopener noreferrer" data-test-subj="extendTrialButton"><span class="euiButton__content"><span class="euiButton__text">Extend trial</span></span></a></span></div></div>""";

exports[`RequestTrialExtension component should display when platinum license is not active and trial has been used 1`] = """"<div class="euiFlexItem"><div class="euiCard euiCard--centerAligned"><span class="euiCard__content"><span class="euiTitle euiTitle--medium euiCard__title">Extend your trial</span><div class="euiText euiText--small euiCard__description"><p><span>If you'd like to continuing using security, machine learning, and our other awesome features, request an extension now.</span></p></div></span><span class="euiCard__footer"><a class="euiButton euiButton--primary" href="https://www.elastic.co/trialextension" target="_blank" rel="noopener noreferrer" data-test-subj="extendTrialButton"><span class="euiButton__content"><span class="euiButton__text">Extend trial</span></span></a></span></div></div>""";

// Jest Snapshot v1, https://goo.gl/fbAQLP
import expect from 'expect.js';
import sinon from 'sinon';
import { checkLicense } from '../check_license';

describe('check_license', function () {

    let mockXPackInfo;

    beforeEach(function () {
        mockXPackInfo = {
            isAvailable: sinon.stub(),
            isXpackUnavailable: sinon.stub(),
            feature: sinon.stub(),
            license: sinon.stub({
                isOneOf() {},
            }),
        };
    });

    it('should display error when ES is unavailable', () => {
        mockXPackInfo.isAvailable.returns(false);
        mockXPackInfo.isXpackUnavailable.returns(false);

        const licenseCheckResults = checkLicense(mockXPackInfo);
        expect(licenseCheckResults).to.be.eql({
            showLogin: true,
            allowLogin: false,
            showLinks: false,
            allowRoleDocumentLevelSecurity: false,
            allowRoleFieldLevelSecurity: false,
            layout: 'error-es-unavailable',
            allowRbac: false,
        });
    });

    it('should display error when X-Pack is unavailable', () => {
        mockXPackInfo.isAvailable.returns(true);
        mockXPackInfo.isXpackUnavailable.returns(true);

        const licenseCheckResults = checkLicense(mockXPackInfo);
        expect(licenseCheckResults).to.be.eql({
            showLogin: true,
            allowLogin: false,
            showLinks: false,
            allowRoleDocumentLevelSecurity: false,
            allowRoleFieldLevelSecurity: false,
            layout: 'error-es-unavailable',
            allowRbac: false,
        });
    });
mockXPackInfo.isAvailable.returns(false);
mockXPackInfo.isXpackUnavailable.returns(true);

currentLicense = "basic";

const licenseCheckResults = checkLicense(mockXPackInfo);
expect(licenseCheckResults).to.be.eql(
  { 
    showLogin: true,
    allowLogin: false,
    showLinks: false,
    allowRoleDocumentLevelSecurity: false,
    allowRoleFieldLevelSecurity: false,
    layout: 'error-xpack-unavailable',
    allowRbac: false,
  });

it('should not show login page or other security elements if license is basic.', () => { 
  mockXPackInfo.license.isOneOf.withArgs(['basic']).returns(true);
mockXPackInfo.feature.withArgs('security').returns(
    isEnabled: () => { return true; }
  );

  const licenseCheckResults = checkLicense(mockXPackInfo);
  expect(licenseCheckResults).to.be.eql(
    { 
      showLogin: false,
      allowLogin: false,
      showLinks: false,
      allowRoleDocumentLevelSecurity: false,
      allowRoleFieldLevelSecurity: false,
      allowRbac: false,
      linksMessage: 'Your Basic license does not support Security. Please upgrade your license.'
    });
});

it('should not show login page or other security elements if security is disabled in Elasticsearch.', () => { 
  mockXPackInfo.license.isOneOf.withArgs(['basic']).returns(false);
mockXPackInfo.feature.withArgs('security').returns(
    isEnabled: () => { return false; }
  );

  const licenseCheckResults = checkLicense(mockXPackInfo);
  expect(licenseCheckResults).to.be.eql(
    { 
      showLogin: false,
      allowLogin: false,
      showLinks: false,
      allowRoleDocumentLevelSecurity: false,
      allowRoleFieldLevelSecurity: false,
      allowRbac: false,
    });
});
it('should allow to login and allow RBAC but forbid document level security if license is not platinum or trial.', () => {
  mockXPackInfo.license.isOneOf
    .returns(false)
    .withArgs(['platinum', 'trial']).returns(false);
  mockXPackInfo.feature.withArgs('security').returns({
    isEnabled: () => { return true; }
  });

  expect(checkLicense(mockXPackInfo)).to.be.eql({
    showLogin: true,
    allowLogin: true,
    showLinks: true,
    allowRoleDocumentLevelSecurity: false,
    allowRoleFieldLevelSecurity: false,
    allowRbac: true,
  });
});

it('should allow to login, allow RBAC and document level security if license is platinum or trial.', () => {
  mockXPackInfo.license.isOneOf
    .returns(false)
    .withArgs(['platinum', 'trial']).returns(true);
  mockXPackInfo.feature.withArgs('security').returns({
    isEnabled: () => { return true; }
  });

  expect(checkLicense(mockXPackInfo)).to.be.eql({
    showLogin: true,
    allowLogin: true,
    showLinks: true,
    allowRoleDocumentLevelSecurity: true,
    allowRoleFieldLevelSecurity: true,
    allowRbac: true,
  });
});

}/*
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import { readFileSync, writeFileSync } from 'fs';
import { resolve } from 'path';
import getopts from 'getopts';
import dedent from 'dedent';
import { createToolingLog, pickLevelFromFlags } from '@kbn/dev-utils';

const unknownFlags = [];
const opts = getopts(process.argv.slice(2), {
  boolean: [
    'help',
    'validate',
    'verbose',
    'debug',
  ],
  unknown(flag) {
    unknownFlags.push(flag);
  }
});

const log = createToolingLog(pickLevelFromFlags(opts));
log.pipe(process.stdout);

if (unknownFlags.length) {
  log.error('Unknown flags ${unknownFlags.map(f => "${f}".join(,’))}');
  process.exitCode = 1;
  opts.help = true;
}

if (opts.help) {
  process.stdout.write('\\n' + dedent
    'Generate or validate NOTICE.txt.
    
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    *
Entries are collected by finding all multi-line comments that start
with a "@notice" tag and copying their text content into NOTICE.txt.

Options:
--help    Show this help info
--validate Don't write the NOTICE.txt, just fail if updates would have been made
--verbose  Set logging level to verbose
--debug    Set logging level to debug
` + '\n\n');
process.exit();
}

(async function run() {
const path = resolve(REPO_ROOT, 'NOTICE.txt');
const newContent = await generateNoticeFromSource({
  productName: 'Kibana source code with Kibana X-Pack source code',
  directory: REPO_ROOT,
  log,
});

const currentContent = readFileSync(path, 'utf8');
if (currentContent === newContent) {
  log.success('NOTICE.txt is up to date');
  return;
}

if (!opts.validate) {
  log.success('Wrote notice text to NOTICE.txt');
  writeFileSync(path, newContent, 'utf8');
  return;
}

log.error('NOTICE.txt is out of date, run `node scripts/notice` to update and commit the results.');
process.exit(1);
})();.catch(error => {
  log.error(error);
  process.exit(1);
});

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import { get } from 'lodash';

/**
export class XPackInfoLicense {

  constructor(getRawLicense) {
    this._getRawLicense = getRawLicense;
  }

  getUid() {
    return get(this._getRawLicense(), 'uid');
  }

  isActive() {
    return get(this._getRawLicense(), 'status') === 'active';
  }

  getExpiryDateInMillis() {
    return get(this._getRawLicense(), 'expiry_date_in_millis');
  }

  isOneOf(candidateLicenses) {
    if (!Array.isArray(candidateLicenses)) {
      return false;
    }

    return candidateLicenses.some(license => this._getRawLicense().licenseId === license.licenseId);
  }
}
candidateLicenses = [candidateLicenses];
}

return candidateLicenses.includes(get(this._getRawLicense(), 'mode'));
}

/**
 * Returns type of the license (basic, gold etc.).
 * @returns {string|undefined}
 */
getType() {
    return get(this._getRawLicense(), 'type');
}

/**
 * Returns mode of the license (basic, gold etc.). This is the "effective" type of the license.
 * @returns {string|undefined}
 */
getMode() {
    return get(this._getRawLicense(), 'mode');
}

/**
 * Determine if the current license is active and the supplied {@code type}.
 *
 * @param {Function} typeChecker The license type checker.
 * @returns {boolean}
 */
isActiveLicense(typeChecker) {
    const license = this._getRawLicense();

    return get(license, 'status') === 'active' && typeChecker(get(license, 'mode'));
}

/**
 * Determine if the license is an active, basic license.
 *
 * Note: This also verifies that the license is active. Therefore it is not safe to assume that !isBasic() ===
 * isNotBasic().
 *
 * @returns {boolean}
 */
isBasic() {
    return this.isActiveLicense(mode => mode === 'basic');
}

/**
 * Determine if the license is an active, non-basic license (e.g., standard, gold, platinum, or trial).
isNotBasic() {
    return this.isActiveLicense(mode => mode !== 'basic');
}
*/
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import React from 'react';
import { EuiPage, EuiPageBody, EuiSpacer, EuiCodeBlock, EuiPanel } from '@elastic/eui';
import { LicenseStatus, AddLicense } from 'plugins/xpack_main/components';

const LicenseUpdateInfoForPrimary = ({ isPrimaryCluster, uploadLicensePath }) => {
    if (!isPrimaryCluster) {
        return null;
    }
    // viewed license is for the cluster directly connected to Kibana
    return <AddLicense uploadPath={uploadLicensePath} />;
};

const LicenseUpdateInfoForRemote = ({ isPrimaryCluster }) => {
    if (isPrimaryCluster) {
        return null;
    }
    // viewed license is for a remote monitored cluster not directly connected to Kibana
    return (
        <EuiPanel>
            <p>
                To update the license for this cluster, provide the license file through
                the Elasticsearch API:
            </p>
        </EuiPanel>
    );
};
```javascript
export function License(props) {
  const { status, type, isExpired, expiryDate } = props;
  return (
    <EuiPage className="licenseManagement">
      <EuiPageBody className="licenseManagement__pageBody">
        <div className="licenseManagement__contain">
          <LicenseStatus
            isExpired={isExpired}
            status={status}
            type={type}
            expiryDate={expiryDate}
          />
          <EuiSpacer size="l" />
          <LicenseUpdateInfoForPrimary {...props} />
          <LicenseUpdateInfoForRemote {...props} />
        </div>
      </EuiPageBody>
      <EuiPage />
    </EuiPage>
  );
};

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 */

export { UploadLicense } from './upload_license.container';
```

// Jest Snapshot v1, https://goo.gl/fbAQLP

exports['LicenseStatus component should display display warning is expired 1'] = "<div><div class="euiFlexGroup euiFlexGroup--gutterLarge euiFlexGroup--justifyContentSpaceAround euiFlexGroup--directionRow euiFlexGroup--responsive"><div class="euiFlexItem euiFlexItem--flexGrowZero"><div class="euiFlexGroup euiFlexGroup--gutterSmall euiFlexGroup--alignItemsCenter euiFlexGroup--directionRow euiFlexGroup--responsive"><div class="euiFlexItem euiFlexItem--flexGrowZero"><svg class="euiIcon euiIcon--medium euiIcon--danger" focusable="false" xmlns="http://www.w3.org/2000/svg" width="16" height="16" viewBox="0 0 16 16"><g fill-rule="evenodd"><path d="M7.5 2.236L1.618 14h11.764L7.5 2.236zm.894-.447l5.882 11.764A1 1 0 0 1 13.382 15H1.618a1 1 0 0 1-.894-1.447L6.606 1.789a1 1 0 0 1 1.788 0z" /></g></svg></div><div class="euiFlexItem euiFlexItem--flexGrowZero">
```

---

Open Source Used In Cisco VIM 3.4.6 3259
Your Platinum license has expired

Your license expired on <strong></strong>

Your license will expire on <strong>October 12, 2099 7:00 PM EST</strong>

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import * as Rx from 'rxjs';
import { catchError, mergeMap, map, switchMap, tap } from 'rxjs/operators';

export const RETRY_SCALE_DURATION = 100;
export const RETRY_DURATION_MAX = 10000;

const calculateDuration = i => {
  const duration = i * RETRY_SCALE_DURATION;
  if (duration > RETRY_DURATION_MAX) {
    return RETRY_DURATION_MAX;
  }

  return duration;
};

// we can't use a retryWhen here, because we want to propagate the red status and then retry
const propagateRedStatusAndScaleRetry = () => {
  let i = 0;
  return (err, caught) => {
    Rx.concat(
Rx.of({
    state: 'red',
    message: err.message
});
Rx.timer(calculateDuration(++i)).pipe(mergeMap(() => caught));
}
;

export function watchStatusAndLicenseToInitialize(xpackMainPlugin, downstreamPlugin, initialize) {
    const xpackInfo = xpackMainPlugin.info;
    const xpackInfoFeature = xpackInfo.feature(downstreamPlugin.id);
    const upstreamStatus = xpackMainPlugin.status;
    const currentStatus$ = Rx.of({
        state: upstreamStatus.state,
        message: upstreamStatus.message,
    });
    const newStatus$ = Rx.fromEvent(upstreamStatus, 'change', null, (previousState, previousMsg, state, message) => {
        return {
            state,
            message,
        };
    });
    const status$ = Rx.merge(currentStatus$, newStatus$);
    const currentLicense$ = Rx.of(xpackInfoFeature.getLicenseCheckResults());
    const newLicense$ = Rx.fromEventPattern(xpackInfo.onLicenseInfoChange.bind(xpackInfo))
        .pipe(map(() => xpackInfoFeature.getLicenseCheckResults()));
    const license$ = Rx.merge(currentLicense$, newLicense$);
    Rx.combineLatest(status$, license$)
        .pipe(
            map(([status, license]) => ({ status, license })),
            switchMap(({ status, license }) => {
                if (status.state !== 'green') {
                    return Rx.of({ state: status.state, message: status.message });
                }
                return Rx.defer(() => initialize(license))
                    .pipe(
                        map(() => {
                            state: 'green',
                            message: 'Ready',
                        })),
                        catchError(propagateRedStatusAndScaleRetry())
        })
}
import { getBundledNotices } from './bundled_notices';

const concatNotices = notices => notices.map(notice => notice.text).join('
');

export async function generatePackageNoticeText(pkg) {
  const bundledNotices = concatNotices(await getBundledNotices(pkg.directory));

  const intro = `This product bundles ${pkg.name}@${pkg.version}`;
  const license = ` which is available under ${pkg.licenses.length > 1
    ? "the
    "$\{pkg.licenses.join('", ')\} licenses."
    : "a
    "$\{pkg.licenses[0]\}" license."
  }`;

  const moreInfo = bundledNotices
    ? `\n    \${bundledNotices}\n    `:
    ` For details, see \${pkg.relative}/.`;

  return `\n  \${intro}$\{license\}$\{moreInfo\}`;
}
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 */

export { registerLicenseChecker } from './register_license_checker';

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 */

export const BASE_PATH = '/management/elasticsearch/license_management/';

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import React from 'react';
import { LicenseDashboard, UploadLicense } from './sections/';
import { Switch, Route } from 'react-router-dom';
import { BASE_PATH } from '../common/constants';
import {
  EuiPage,
  EuiPageBody,
} from '@elastic/eui';

export default () => (
  <EuiPage className="licenseManagement">
    <EuiPageBody className="licenseManagement__pageBody">
      <Switch>
        <Route path={`${BASE_PATH}upload_license`} component={UploadLicense}/>
        <Route path={`${BASE_PATH}`} component={LicenseDashboard}/>
      </Switch>
    </EuiPageBody>
  </EuiPage>
);

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import { LicenseStatus } from '../public/sections/license_dashboard/license_status';
import { createMockLicense, getComponent } from './util';
describe('LicenseStatus component', () => {
  test('should display normally when license is active', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('gold')
      },
      LicenseStatus
    );
    expect(rendered.html()).toMatchSnapshot();
  });
  test('should display display warning is expired', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('platinum', 0)
      },
      LicenseStatus
    );
    expect(rendered.html()).toMatchSnapshot();
  });
});

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import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import { Notifier } from 'ui/notify';

export function checkLicenseError(kbnUrl, Promise, Private) {
  const xpackInfo = Private(XPackInfoProvider);
  const genericNotifier = new Notifier({ location: 'Security' });

  return err => {
    if (!xpackInfo.get('features.security.showLinks')) {
      genericNotifier.error(xpackInfo.get('features.security.linksMessage'));
      kbnUrl.redirect('/management');
      return Promise.halt();
    }
    return Promise.reject(err);
  }
}

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*/

export { generateNoticeFromSource } from './generate_notice_from_source';
export { generateBuildNoticeText } from './generate_build_notice_text';

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import { mirrorPluginStatus } from '../../../../../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../../../common/constants';

export function registerLicenseChecker(server) {
  const xpackMainPlugin = server.plugins.xpack_main;
  const watcherPlugin = server.plugins.watcher;

  mirrorPluginStatus(xpackMainPlugin, watcherPlugin);
  xpackMainPlugin.status.once('green', () => {
    // Register a function that is called whenever the xpack info changes,
    // to re-compute the license check results for this plugin
    xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
  });
}

/*
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*/

export const PLUGIN = {
  ID: 'license_management'
};

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*/
import React from 'react';
import { render, unmountComponentAtNode } from 'react-dom';
import { Provider } from 'react-redux';
import { HashRouter } from 'react-router-dom';
import App from './app';
import { BASE_PATH } from '../common/constants/base_path';
import routes from 'ui/routes';
import { XPackInfoProvider as xpackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import template from './main.html';
import { licenseManagementStore } from './store';

const renderReact = (elem, store) => {
  render(
    <Provider store={store}>
      <HashRouter>
        <App />
      </HashRouter>
    </Provider>,
    elem
  );
};

/*
This method handles the cleanup needed when route is scope is destroyed. It also prevents Angular
from destroying scope when route changes and both old route and new route are this same route.
*/
const manageAngularLifecycle = ($scope, $route, elem) => {
  const lastRoute = $route.current;
  const deregister = $scope.$on('$locationChangeSuccess', () => {
    const currentRoute = $route.current;
    // if templates are the same we are on the same route
    if (lastRoute.$$route.template === currentRoute.$$route.template) {
      // this prevents angular from destroying scope
      $route.current = lastRoute;
    }
  });
  $scope.$on('$destroy', () => {
    deregister && deregister();
    // manually unmount component when scope is destroyed
    elem && unmountComponentAtNode(elem);
  });
};
import { RevertToBasic } from './public/sections/license_dashboard/revert_to_basic';
import { createMockLicense, getComponent } from './util';

describe('RevertToBasic component', () => {
  test('should display when trial is active', () => {
    const rendered = getComponent(
      
      $scope.$$postDigest(() => {
        const elem = document.getElementById('licenseReactRoot');
        const xPackInfo = xPackInfoProvider($window, $injector, $injector.get('Private'));
        const initialState = { license: xPackInfo.get('license') };
        const kbnUrlWrapper = {
          change(url) {
            kbnUrl.change(url);
            $rootScope.$$digest();
          }
        };
        const services = { autoLogout, xPackInfo, kbnUrl: kbnUrlWrapper }; 
        const store = licenseManagementStore(initialState, services);
        renderReact(elem, store);
        manageAngularLifecycle($scope, $route, elem);
      });
      
      /' */
      
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      */

      import { RevertToBasic } from './public/sections/license_dashboard/revert_to_basic';
      import { createMockLicense, getComponent } from './util';

      describe('RevertToBasic component', () => {
        test('should display when trial is active', () => {
          const rendered = getComponent(
            
            try {
              autoLogout = $injector.get('autoLogout');
            } catch (e) {
              autoLogout = () => {};
            }

            $scope.$$postDigest(() => {
              const elem = document.getElementById('licenseReactRoot');
              const xPackInfo = xPackInfoProvider($window, $injector, $injector.get('Private'));
              const initialState = { license: xPackInfo.get('license') };
              const kbnUrlWrapper = {
                change(url) {
                  kbnUrl.change(url);
                  $rootScope.$$digest();
                }
              };
              const services = { autoLogout, xPackInfo, kbnUrl: kbnUrlWrapper };
              const store = licenseManagementStore(initialState, services);
              renderReact(elem, store);
              manageAngularLifecycle($scope, $route, elem);
            });
            
            /' */
            
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            */

            import { RevertToBasic } from './public/sections/license_dashboard/revert_to_basic';
            import { createMockLicense, getComponent } from './util';

            describe('RevertToBasic component', () => {
              test('should display when trial is active', () => {
                const rendered = getComponent(
                  
                  try {
                    autoLogout = $injector.get('autoLogout');
                  } catch (e) {
                    autoLogout = () => {};
                  }

                  $scope.$$postDigest(() => {
                    const elem = document.getElementById('licenseReactRoot');
                    const xPackInfo = xPackInfoProvider($window, $injector, $injector.get('Private'));
                    const initialState = { license: xPackInfo.get('license') };
                    const kbnUrlWrapper = {
                      change(url) {
                        kbnUrl.change(url);
                        $rootScope.$$digest();
                      }
                    };
                    const services = { autoLogout, xPackInfo, kbnUrl: kbnUrlWrapper };
                    const store = licenseManagementStore(initialState, services);
                    renderReact(elem, store);
                    manageAngularLifecycle($scope, $route, elem);
                  });
                  
                  /' */
                  
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                  */

                  import { RevertToBasic } from './public/sections/license_dashboard/revert_to_basic';
                  import { createMockLicense, getComponent } from './util';

                  describe('RevertToBasic component', () => {
                    test('should display when trial is active', () => {
                      const rendered = getComponent(
                        
                        try {
                          autoLogout = $injector.get('autoLogout');
                        } catch (e) {
                          autoLogout = () => {};
                        }

                        $scope.$$postDigest(() => {
                          const elem = document.getElementById('licenseReactRoot');
                          const xPackInfo = xPackInfoProvider($window, $injector, $injector.get('Private'));
                          const initialState = { license: xPackInfo.get('license') };
                          const kbnUrlWrapper = {
                            change(url) {
                              kbnUrl.change(url);
                              $rootScope.$$digest();
                            }
                          };
                          const services = { autoLogout, xPackInfo, kbnUrl: kbnUrlWrapper };
                          const store = licenseManagementStore(initialState, services);
                          renderReact(elem, store);
                          manageAngularLifecycle($scope, $route, elem);
                        });
                        
                        /' */
                        
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                        */
test('should display when license is expired', () => {
  const rendered = getComponent(
    {
      license: createMockLicense('platinum', 0)
    },
    RevertToBasic
  );
  expect(rendered.html()).toMatchSnapshot();
});

test('should display when license is about to expire', () => {
  // ten days from now
  const imminentExpirationTime = new Date().getTime() + (10 * 24 * 60 * 60 * 1000);
  const rendered = getComponent(
    {
      license: createMockLicense('platinum', imminentExpirationTime)
    },
    RevertToBasic
  );
  expect(rendered.html()).toMatchSnapshot();
});

test('should not display for active basic license', () => {
  const rendered = getComponent(
    {
      license: createMockLicense('basic')
    },
    RevertToBasic
  );
  expect(rendered.html()).toBeNull();
});

test('should not display for active gold license', () => {
  const rendered = getComponent(
    {
      license: createMockLicense('gold')
    },
    RevertToBasic
  );
  expect(rendered.html()).toBeNull();
});

test('should not display for active platinum license', () => {
  const rendered = getComponent(
    {
      license: createMockLicense('platinum')
    },
    RevertToBasic
  );
  expect(rendered.html()).toBeNull();
});
RevertToBasic
); expect(rendered.html()).toBeNull();
});
*/

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 */

const Boom = require('boom');

export function routePreCheckLicense(server) {
const xpackMainPlugin = server.plugins.xpack_main;
const pluginId = 'security';
return function forbidApiAccess(request, reply) {
    const licenseCheckResults = xpackMainPlugin.info.feature(pluginId).getLicenseCheckResults();
    if (!licenseCheckResults.showLinks) {
        reply(Boom.forbidden(licenseCheckResults.linksMessage));
    } else {
        reply();
    }
};
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 */

import { resolve } from 'path';
import { readFileSync } from 'fs';
import { generateBuildNoticeText } from './generate_build_notice_text';

const NODE_MODULES = resolve(__dirname, '__fixtures__/node_modules');
const NODE_DIR = resolve(process.execPath, '../..');
const NODE_VERSION = '8.11.3';
const PACKAGES = [
    {
        name: 'bar',
        version: '1.0.0',
        licenses: ['MIT'],
        directory: resolve(NODE_MODULES, 'bar'),
        relative: 'node_modules/bar',
    },
    {
        name: 'foo',
        version: '1.0.0',
        licenses: ['Apache 2.0'],
        directory: resolve(NODE_MODULES, 'foo'),
        relative: 'node_modules/foo',
    },
];

describe('src/dev/build/tasks/notice_file/generate_notice', () => {
    describe('generateBuildNoticeText()', () => {
        let notice;
        beforeAll((notice = await generateBuildNoticeText({
            packages: PACKAGES,
            nodeDir: NODE_DIR,
            nodeVersion: NODE_VERSION,
            noticeFromSource: 'NOTICE_FROM_SOURCE
        })))
        );

        it('returns a string', () => {
            expect(typeof notice).toBe('string');
        });

        it('includes *NOTICE* files from packages', () => {
            expect(notice).toEqual(expect.stringContaining( readFileSync(resolve(NODE_MODULES, 'foo/NOTICE.txt'), 'utf8')));
        });

        it('includes *LICENSE* files from packages', () => {
            expect(notice).toEqual(expect.stringContaining( readFileSync(}
import React from 'react';
import { toastNotifications } from 'ui/notify';
import { MarkdownSimple } from 'ui/markdown';
import { PLUGIN } from '../../../common/constants';

export class LogstashLicenseService {
    constructor(xpackInfoService, kbnUrlService, $timeout) {
        this.xpackInfoService = xpackInfoService;
        this.kbnUrlService = kbnUrlService;
        this.$timeout = $timeout;
    }

    get enableLinks() {
        return Boolean(this.xpackInfoService.get('features.${PLUGIN.ID}.enableLinks'));
    }

    get isAvailable() {
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         */

        resolve(NODE_MODULES, 'bar/LICENSE.md'),
        'utf8'
    });

    it('includes the LICENSE file from node', () => {
        expect(notice).toEqual(expect.stringContaining(
            readFileSync(resolve(NODE_DIR, 'LICENSE'), 'utf8')
        ));
    });

    it('includes node version', () => {
        expect(notice).toEqual(expect.stringContaining(
            'This product bundles Node.js v8.11.3'
        ));
    });

    it('includes the noticeFromSource', () => {
        expect(notice).toEqual(expect.stringContaining(
            'NOTICE_FROM_SOURCE'
        ));
    });
};
return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.isAvailable`));
}

get isReadOnly() {
  return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.isReadOnly`));
}

get message() {
  return this.xpackInfoService.get(`features.${PLUGIN.ID}.message`);
}

notifyAndRedirect() {
  toastNotifications.addDanger(
    title: <MarkdownSimple>{this.xpackInfoService.get(`features.${PLUGIN.ID}.message`)}</MarkdownSimple>,
  );
  this.kbnUrlService.redirect(`/management`);
}

/**
 * Checks if the license is valid or the license can perform downgraded UI tasks.
 * Otherwise, notifies and redirects.
 */
checkValidity() {
  return new Promise((resolve, reject) => {
    this.$timeout(() => {
      if (this.isAvailable) {
        return resolve();
      }
      this.notifyAndRedirect();
      return reject();
    }, 10); // To allow latest XHR call to update license info
  });
}

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export const LICENSE_WHITELIST = [
    'Elastic-License',
    '(BSD-2-Clause OR MIT OR Apache-2.0)',
    '(BSD-2-Clause OR MIT)',
    '(GPL-2.0 OR MIT)',
    '(MIT AND CC-BY-3.0)',
    '(MIT AND Zlib)',
    '(MIT OR Apache-2.0)',
    '(WTFPL OR MIT)',
    'AFLv2.1',
    'Apache 2.0',
    'Apache License, v2.0',
    'Apache License, Version 2.0',
    'Apache',
    'Apache*',
    'Apache, Version 2.0',
    'Apache-2.0',
    'BSD 3-Clause',
    'BSD New',
    'BSD',
    'BSD*',
    'BSD-2-Clause',
    'BSD-3-Clause AND MIT',
    'BSD-3-Clause OR MIT',
    'BSD-3-Clause',
    'BSD-like',
    'CC0-1.0',
    'CC-BY',
    'CC-BY-3.0',
    'CC-BY-4.0',
    'ISC',
    'MIT OR GPL-2.0',
    'MIT',
    'MIT*',
    'MIT/X11',
    'new BSD, and MIT',
    'OFL-1.1 AND MIT',
    'Public Domain',
    'Unlicense',
    'WTFPL OR ISC',
    'WTFPL',
];
export const LICENSE_OVERRIDES = {
// TODO can be removed once we upgrade past elasticsearch-browser@14.0.0
'elasticsearch-browser@13.0.1': ['Apache-2.0'],

// TODO can be removed once we upgrade past colors.js@1.0.0
'colors@0.5.1': ['MIT'],

// TODO can be removed once we upgrade past map-stream@0.5.0
'map-stream@0.1.0': ['MIT'],
'uglify-js@2.2.5': ['BSD'],
'png-js@0.1.1': ['MIT'],
'sha.js@2.4.11': ['BSD-3-Clause AND MIT'],
};

{xpack.license.get_basic_status: {
  "methods": ["GET"],
  "patterns": ["_xpack/license/basic_status"],
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}}

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import React from 'react';
import { BASE_PATH } from '../../../../common/constants';
import { EuiCard, EuiButton } from '@elastic/eui';

export const AddLicense = ({ uploadPath = `#${BASE_PATH}upload_license` }) => {
  return (
    <EuiCard
      title="Update your license"
      description="If you already have a new license, upload it now."
      footer={[
        <EuiButton
          data-test-subj="updateLicenseButton"
          style={{ marginTop: 'auto' }}
          href={uploadPath}
        >
          Update license
        </EuiButton>
      ]}
  )
}
import { createStore, applyMiddleware, compose } from 'redux';
import thunk from 'redux-thunk';

import { licenseManagement } from './reducers/';

export const licenseManagementStore = (initialState = {}, services = {}) => {
  const enhancers = [ applyMiddleware(thunk.withExtraArgument(services)) ];

  window.__REDUX_DEVTOOLS_EXTENSION__ &&
  enhancers.push(window.__REDUX_DEVTOOLS_EXTENSION__());

  return createStore(
    licenseManagement,
    initialState,
    compose(...enhancers)
  );
};

{"name": "@kbn/eslint-plugin-license-header",
"version": "1.0.0",
"private": true,
"license": "Apache-2.0",
"peerDependencies": {
  "eslint": ">=4.0.0",
  "babel-eslint": "^8.2.1"
},
"dependencies": {
  "dedent": "^0.7.0"
}
}
import 'ui/url';
import { LogstashLicenseService } from './logstash_license_service';

uiModules.get('xpack/logstash')
.factory('logstashLicenseService', ($injector) => {
    const Private = $injector.get('Private');
    const xpackInfoService = Private(XPackInfoProvider);
    const kbnUrlService = $injector.get('kbnUrl');
    const $timeout = $injector.get('$timeout');

    return new LogstashLicenseService(xpackInfoService, kbnUrlService, $timeout);
});

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import { connect } from 'react-redux';

import { RevertToBasic as PresentationComponent } from './revert_to_basic';
import {
    startBasicLicenseNeedsAcknowledgement,
    getLicenseType,
    shouldShowRevertToBasicLicense,
    getStartBasicMessages
} from './store/reducers/licenseManagement';
import { startBasicLicense, cancelStartBasicLicense } from './store/actions/start_basic';

const mapStateToProps = state => {
    return {
        shouldShowRevertToBasicLicense: shouldShowRevertToBasicLicense(state),
        licenseType: getLicenseType(state),
        needsAcknowledgement: startBasicLicenseNeedsAcknowledgement(state),
        messages: getStartBasicMessages(state)
    }
};

const mapDispatchToProps = {
    startBasicLicense,
    cancelStartBasicLicense
};

export const RevertToBasic = connect(mapStateToProps, mapDispatchToProps)(
    PresentationComponent
);

/*
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*/
export { licenseManagement } from './licenseManagement';

{"xpack.license.post_start_trial": {
  "url_params": {
    "type": "trial",
    "acknowledge": '__flag__'
  },
  "methods": ["POST"],
  "patterns": ["_xpack/license/start_trial"],
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}}

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 */

import licenseChecker from 'license-checker';

export function callLicenseChecker(options = {}) {
  const {
    directory,
    dev = false
  } = options;

  if (!directory) {
throw new Error('You must specify the directory where license checker should start');
}

return new Promise((resolve, reject) => {
  licenseChecker.init({
    start: directory,
    production: !dev,
    json: true,
    customFormat: {
      realPath: true,
      licenseText: false,
      licenseFile: false
    }
  }, (err, licenseInfo) => {
    if (err) reject(err);
    else resolve(licenseInfo);
  });
});

# THIS IS AN AUTOGENERATED FILE. DO NOT EDIT THIS FILE DIRECTLY.
# yarn lockfile v1

dedent@'^0.7.0':
  version "0.7.0"
  resolved "https://registry.yarnpkg.com/dedent/-/dedent-0.7.0.tgz#2495ddbaf6eb874abb0e1be9df22d2e5a544326c"
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 */

import { includes } from 'lodash';

/**
 * Function to do the work of checking license for cluster alerts feature support
 * Can be used to power XpackInfo license check results as well as checking license of monitored clusters
 *
 * @param {String} type License type if a valid license. { @code null} if license was deleted.
 * @param {Boolean} active Indicating that the overall license is active
 * @param {String} clusterSource 'monitoring' or 'production'
 * @param {Boolean} watcher { @code true} if Watcher is provided (or if its availability should not be checked)
 */
export function checkLicense(type, active, clusterSource, watcher = true) {
  // return object, set up with safe defaults
  const licenseInfo = {
    clusterAlerts: { enabled: false }
  };
}
// Disabled because there is no license
if (!type) {
    return Object.assign(licenseInfo, {
        message: `Cluster Alerts are not displayed because the [${clusterSource}] cluster's license could not be
determined.`
    });
}

// Disabled because the license type is not valid (basic)
if (!includes([ 'trial', 'standard', 'gold', 'platinum' ], type)) {
    return Object.assign(licenseInfo, {
        message: `Cluster Alerts are not displayed if Watcher is disabled or the [${clusterSource}] cluster's current
license is basic.`
    });
}

// Disabled because the license is inactive
if (!active) {
    return Object.assign(licenseInfo, {
        message: `Cluster Alerts are not displayed because the [${clusterSource}] cluster's current license [${type}] is
not active.`
    });
}

// Disabled because Watcher is not enabled (it may or may not be available)
if (!watcher) {
    return Object.assign(licenseInfo, { message: 'Cluster alerts is not enabled because Watcher is disabled.' });
}

return Object.assign(licenseInfo, { clusterAlerts: { enabled: true } });

/**
 * Function to "generate" license check results for {@code xpackInfo}.
 *
 * @param {Object} xpackInfo license information for the _Monitoring_ cluster
 * @param {Function} _checkLicense Method exposed for easier unit testing
 * @returns {Object} Response from {@code checker}
 */
export function checkLicenseGenerator(xpackInfo, _checkLicense = checkLicense) {
    let type = false;
    let active = false;
    let watcher = false;

    if (xpackInfo && xpackInfo.license) {
        const watcherFeature = xpackInfo.feature('watcher');
if (watcherFeature) {
    watcher = watcherFeature.isEnabled();
}

type = xpackInfo.license.getType();
active = xpackInfo.license.isActive();
}

return _checkLicense(type, active, 'monitoring', watcher);
*/

import { connect } from 'react-redux';

import { StartTrial as PresentationComponent } from './start_trial';
import { loadTrialStatus, startLicenseTrial } from '../../../store/actions/start_trial';
import { shouldShowStartTrial } from '../../../store/reducers/licenseManagement';

const mapStateToProps = (state) => {
    return {
        shouldShowStartTrial: shouldShowStartTrial(state),
    };
};

const mapDispatchToProps = {
    loadTrialStatus,
    startLicenseTrial
};

export const StartTrial = connect(mapStateToProps, mapDispatchToProps)(PresentationComponent);

import { RequestTrialExtension } from '../public/sections/license_dashboard/request_trial_extension';
import { createMockLicense, getComponent } from './util';

describe('RequestTrialExtension component', () => {
    test('should not display when license is active and trial has not been used', () => {
        const rendered = getComponent(
            trialStatus: {
            });
canStartTrial: true
},
license: createMockLicense('trial')
},
RequestTrialExtension
);
const html = rendered.html();
expect(html).toBeNull();
});
test('should display when license is active and trial has been used', () => {
const rendered = getComponent(
{
trialStatus: {
    canStartTrial: false
},
license: createMockLicense('trial')
},
RequestTrialExtension
);
const html = rendered.html();
expect(html).not.toBeNull();
expect(html).toMatchSnapshot();
});
test('should not display when license is not active and trial has not been used', () => {
const rendered = getComponent(
{
    trialStatus: {
        canStartTrial: true
    },
    license: createMockLicense('trial', 0)
},
RequestTrialExtension
);
const html = rendered.html();
expect(html).toBeNull();
});
test('should display when license is not active and trial has been used', () => {
const rendered = getComponent(
{
    trialStatus: {
        canStartTrial: false
    },
    license: createMockLicense('trial', 0)
},
RequestTrialExtension
);
const html = rendered.html();
expect(html).not.toBeNull();
});
export function checkLicense(xpackLicenseInfo) {

if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
  return {
    showAppLink: true,
    enableAppLink: false,
    message: 'Graph is unavailable - license information is not available at this time.'
  };
}

const graphFeature = xpackLicenseInfo.feature('graph');
if (!graphFeature.isEnabled()) {

return {
    showAppLink: false,
    enableAppLink: false,
    message: 'Graph is unavailable'
};

const isLicenseActive = xpackLicenseInfo.license.isActive();
let message;
if (!isLicenseActive) {
    message = `Graph is unavailable - license has expired.`;
}
if (xpackLicenseInfo.license.isOneOf([ 'trial', 'platinum' ])) {
    return {
        showAppLink: true,
        enableAppLink: isLicenseActive,
        message
    };
}
message = `Graph is unavailable for the current $xpackLicenseInfo.license.getType() license. Please upgrade your license.`;
return {
    showAppLink: false,
    enableAppLink: false,
    message
};

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 */
export { LICENSE_WHITELIST, LICENSE_OVERRIDES } from './config';
export { assertLicensesValid } from './valid';

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*/

import { get } from 'lodash';
import { checkParam } from './error_missing_required';
import { createQuery } from './create_query';
import { ElasticsearchMetric } from '../metrics';

export function getClusterLicense(req, esIndexPattern, clusterUuid) {
  checkParam(esIndexPattern, 'esIndexPattern in getClusterLicense');

  const params = {
    index: esIndexPattern,
    size: 1,
    ignoreUnavailable: true,
    filterPath: 'hits.hits._source.license',
    body: {
      sort: { timestamp: { order: 'desc' } },
      query: createQuery({
        type: 'cluster_stats',
        clusterUuid,
        metric: ElasticsearchMetric.getMetricFields()
      })
    }
  };

  const { callWithRequest } = req.server.plugins.elasticsearch.getCluster('monitoring');
  return callWithRequest(req, 'search', params)
    .then(response => {
      return get(response, 'hits.hits[0]._source.license', {});
    });
  }

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*/

export { AddLicense } from './add_license';

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*/
export { licenseManagementStore } from './store';
{
  "xpack.license.post": {
    "data_autocomplete_rules": {
      "licenses": []
    }
  }
}

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under the License.
*/

const describeInvalidLicenses = getInvalid => pkg => (``
${pkg.name}
version: ${pkg.version}
all licenses: ${pkg.licenses}
invalid licenses: ${getInvalid(pkg.licenses).join(', ')}
path: ${pkg.relative}
``);

/**
* When given a list of packages and the valid license
* options, either throws an error with details about
* violations or returns undefined.
*
* @param {Object} [options={}]`
* @property {Array<Package>} options.packages List of packages to check, see
  getInstalledPackages() in ./.packages
* @property {Array<string>} options.validLicenses
```
export function assertLicensesValid(options = {}) {
    const {
        packages,
        validLicenses
    } = options;

    if (!packages || !validLicenses) {
        throw new Error('packages and validLicenses options are required');
    }

    const getInvalid = licenses => (licenses.filter(license => !validLicenses.includes(license)));

    const isPackageInvalid = pkg => (!
        !pkg.licenses.length || getInvalid(pkg.licenses).length > 0);

    const invalidMsgs = packages
        .filter(isPackageInvalid)
        .map(describeInvalidLicenses(getInvalid));

    if (invalidMsgs.length) {
        throw new Error(`Non-conforming licenses: ${invalidMsgs.join('')}`);
    }
}

describe('Monitoring Check License', () => {
    describe('License undeterminable', () => {
        it('null active license - results false with a message', () => {
            const result = checkLicense(null, true, 'test-cluster-abc');
            expect(result).to.eql({
                clusterAlerts: { enabled: false },
                message: 'Cluster Alerts are not displayed because the [test-cluster-abc] cluster's license could not be determined.'
            });
        });
    });
})
describe('Inactive license', () => {
  it('platinum inactive license - results false with a message', () => {
    const result = checkLicense('platinum', false, 'test-cluster-def');
    expect(result).to.eql({
      clusterAlerts: { enabled: false },
      message: `Cluster Alerts are not displayed because the [test-cluster-def] cluster's current license [platinum] is not active.`
    });
  });
});

describe('Active license', () => {
  describe('Unsupported license types', () => {
    it('basic active license - results false with a message', () => {
      const result = checkLicense('basic', true, 'test-cluster-ghi');
      expect(result).to.eql({
        clusterAlerts: { enabled: false },
        message: `Cluster Alerts are not displayed if Watcher is disabled or the [test-cluster-ghi] cluster's current license is basic.`
      });
    });
  });

  describe('Supported license types', () => {
    it('standard active license - results true with no message', () => {
      const result = checkLicense('standard', true, 'test-cluster-jkl');
      expect(result).to.eql({
        clusterAlerts: { enabled: true }
      });
    });

    it('gold active license - results true with no message', () => {
      const result = checkLicense('gold', true, 'test-cluster-mno');
      expect(result).to.eql({
        clusterAlerts: { enabled: true }
      });
    });

    it('platinum active license - results true with no message', () => {
      const result = checkLicense('platinum', true, 'test-cluster-pqr');
      expect(result).to.eql({
        clusterAlerts: { enabled: true }
      });
    });
  });
});

describe('Watcher is not enabled', () => {
it('platinum active license - watcher disabled - results false with message', () => {
    const result = checkLicense('platinum', true, 'test-cluster-pqr', false);
    expect(result).to.eql(
        {
            clusterAlerts: { enabled: false },
            message: 'Cluster alerts is not enabled because Watcher is disabled.'
        }
    );
});

describe('XPackInfo checkLicenseGenerator', () => {
    it('with deleted license', () => {
        const expected = 123;
        const checker = sinon.stub().returns(expected);
        const result = checkLicenseGenerator(null, checker);
        expect(result).to.be(expected);
        expect(checker.withArgs(undefined, false, 'monitoring', false).called).to.be(true);
    });

    it('license without watcher', () => {
        const expected = 123;
        const xpackInfo = {
            license: {
                getType: () => 'fake-type',
                isActive: () => true,
            },
            feature: () => null
        };
        const checker = sinon.stub().returns(expected);
        const result = checkLicenseGenerator(xpackInfo, checker);
        expect(result).to.be(expected);
        expect(checker.withArgs('fake-type', true, 'monitoring', false).called).to.be(true);
    });

    it('mock license with watcher', () => {
        const expected = 123;
        const feature = sinon.stub().withArgs('watcher').returns({ isEnabled: () => true });
        const xpackInfo = {
            license: {
                getType: () => 'another-type',
                isActive: () => true,
            },
            feature
        };
        const checker = sinon.stub().returns(expected);
const result = checkLicenseGenerator(xpackInfo, checker);

epect(result).to.be(expected);
expect(feature.withArgs('watcher').calledOnce).to.be(true);
expect(checker.withArgs('another-type', true, 'monitoring', true).called).to.be(true);
});

it('platinum license with watcher', () => {
const xpackInfo = {
  license: {
    getType: () => 'platinum',
    isActive: () => true
  },
  feature: () => {
    return {
      isEnabled: () => true
    };
  }
};

const result = checkLicenseGenerator(xpackInfo);

expect(result).to.eql({ clusterAlerts: { enabled: true } });

});

});

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import React from 'react';

import {
  EuiButton,
  EuiFlexItem,
  EuiCard,
  EuiLink,
  EuiOverlayMask,
  EuiConfirmModal,
  EuiText
} from '@elastic/eui';

import { ELASTIC_WEBSITE_URL, DOC_LINK_VERSION } from 'ui/documentation_links';

const esBase = `${ELASTIC_WEBSITE_URL}guide/en/elasticsearch/reference/${DOC_LINK_VERSION}`;
const securityDocumentationLink = `${esBase}/security-settings.html`;
export class StartTrial extends React.PureComponent {
  constructor(props) {
    super(props);
    this.state = { showConfirmation: false };
  }
  componentWillMount() {
    this.props.loadTrialStatus();
  }

  acknowledgeModal() {
    const { showConfirmation } = this.state;
    if (!showConfirmation) {
      return null;
    }
    const { startLicenseTrial } = this.props;
    return (
      <EuiOverlayMask>
        <EuiConfirmModal
          title="Start your free 30-day trial"
          onCancel={() => this.setState({ showConfirmation: false })}
          onConfirm={() => startLicenseTrial()}
          cancelButtonText="Cancel"
          confirmButtonText="Start my trial"
        >
          <div>
            <EuiText>
              <p>
                This trial is for the full set of Platinum features
              </p>
              <EuiLink
                href="https://www.elastic.co/subscriptions/xpack"
                target="_blank"
              >
                of the Elastic Stack. You'll get immediate access to:
              </EuiLink>
            </EuiText>
            <ul>
              <li>Machine learning</li>
              <li>Alerting</li>
              <li>Graph capabilities</li>
              <li>JDBC connectivity for SQL</li>
            </ul>
            <p>
              Security features, such as authentication (native, AD/LDAP, SAML, PKI), role-based access control, and auditing, require configuration. See the
            </p>
          </div>
        </EuiConfirmModal>
      </EuiOverlayMask>
    );
  }
}
By starting this trial, you agree that it is subject to these \[ \] terms and conditions.

const { shouldShowStartTrial } = this.props;
if (!shouldShowStartTrial) {
  return null;
}
const description = (\n  Experience what security, machine learning, and all our other \[ \]
  Platinum features \n  have to offer.\n);\nconst footer = (\n  \n  Start trial \n);\nreturn (\n  {this.acknowledgeModal()}\n)
describe('AddLicense component when license is active', () => {
  test('should display correct verbiage', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('basic')
      },
      AddLicense
    );
    expect(rendered.html()).toMatchSnapshot();
  });
});

describe('AddLicense component when license is expired', () => {
  test('should display with correct verbiage', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('platinum', 0)
      },
      AddLicense
    );
    expect(rendered.html()).toMatchSnapshot();
  });
});

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*/

const messages = {
  AddLicense component when license is active', () => {
    test('should display correct verbiage', () => {
      const rendered = getComponent(
        {
          license: createMockLicense('basic')
        },
        AddLicense
      );
      expect(rendered.html()).toMatchSnapshot();
    });
  });

describe('AddLicense component when license is expired', () => {
  test('should display with correct verbiage', () => {
    const rendered = getComponent(
      {
        license: createMockLicense('platinum', 0)
      },
      AddLicense
    );
    expect(rendered.html()).toMatchSnapshot();
  });
});

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*/

const messages = {
  "Start a 30-day trial"
}
getUnavailable: () => {
    return 'You cannot use Reporting because license information is not available at this time.';
},
getExpired: (license) => {
    return `You cannot use Reporting because your ${license.getType()} license has expired.`;
}
};

const makeManagementFeature = (exportTypes) => {
    return {
        id: 'management',
        checkLicense: (license) => {
            if (!license) {
                return {
                    showLinks: true,
                    enableLinks: false,
                    message: messages.getUnavailable(),
                };
            }
            if (!license.isActive()) {
                return {
                    showLinks: true,
                    enableLinks: false,
                    message: messages.getExpired(license),
                };
            }
            const validJobTypes = exportTypes
                .filter(exportType => license.isOneOf(exportType.validLicenses))
                .map(exportType => exportType.jobType);

            return {
                showLinks: validJobTypes.length > 0,
                enableLinks: validJobTypes.length > 0,
                jobTypes: validJobTypes
            };
        };
    };

const makeExportTypeFeature = (exportType) => {
    return {
        id: exportType.id,
        checkLicense: (license) => {
            if (!license) {
                return {
                    showLinks: true,
                };
            }
        }
    };

const makeExportTypeFeature = (exportType) => {
    return {
        id: exportType.id,
        checkLicense: (license) => {
            if (!license) {
                return {showLinks: true,
            };
        }
    };
export function checkLicenseFactory(exportTypesRegistry) {
    return function checkLicense(xpackLicenseInfo) {
        const license = xpackLicenseInfo === null || !xpackLicenseInfo.isAvailable() ? null : xpackLicenseInfo.license;

        const exportTypes = Array.from(exportTypesRegistry.getAll());
        const reportingFeatures = [...exportTypes.map(makeExportTypeFeature), makeManagementFeature(exportTypes)];

        return reportingFeatures.reduce((result, feature) => {
            result[feature.id] = feature.checkLicense(license);
            return result;
        }, {});
    }
}

export function checkLicenseFactory(exportTypesRegistry) {
    return function checkLicense(xpackLicenseInfo) {
        const license = xpackLicenseInfo === null || !xpackLicenseInfo.isAvailable() ? null : xpackLicenseInfo.license;

        const exportTypes = Array.from(exportTypesRegistry.getAll());
        const reportingFeatures = [...exportTypes.map(makeExportTypeFeature), makeManagementFeature(exportTypes)];

        return reportingFeatures.reduce((result, feature) => {
            result[feature.id] = feature.checkLicense(license);
            return result;
        }, {});
    }
}
import { get } from 'lodash';

/**
 * Determine if an API for Cluster Alerts should respond based on the license and configuration of the monitoring cluster.
 *
 * Note: This does not guarantee that any production cluster has a valid license; only that Cluster Alerts in general can be used!
 *
 * @param  {Object} server Server object containing config and plugins
 * @return {Boolean} { @code true } to indicate that cluster alerts can be used.
 */
export function verifyMonitoringLicense(server) {
  const config = server.config();

  // if cluster alerts are enabled, then ensure that we can use it according to the license
  if (config.get('xpack.monitoring.cluster_alerts.enabled')) {
    const xpackInfo = get(server.plugins.monitoring, 'info');
    if (xpackInfo) {
      const monitoringCluster = xpackInfo.feature('monitoring').getLicenseCheckResults();
      return {
        enabled: monitoringCluster.clusterAlerts.enabled,
        message: monitoringCluster.message
      };
    }
  }

  return {
    enabled: false,
    message: 'Status of Cluster Alerts feature could not be determined.'
  };
}

export { StartTrial } from './start_trial.container';
import { mount } from 'enzyme';
import React from 'react';
import { Provider } from 'react-redux';
import { uploadLicense } from '../public/store/actions/upload_license';
import { licenseManagementStore } from '../public/store/store';
import { UploadLicense } from '../public/sections/upload_license';
import { BASE_PATH } from '../common/constants';
import {
  UPLOAD_LICENSE_EXPIRED,
  UPLOAD_LICENSE_REQUIRES_ACK,
  UPLOAD_LICENSE_SUCCESS,
  UPLOAD_LICENSE_TLS_NOT_ENABLED,
  UPLOAD_LICENSE_INVALID,
} from './api_responses';

import sinon from 'sinon';
window.location.reload = () => {};
let server = null;
let store = null;
let component = null;
const services = {
  kbnUrl: {
    change: jest.fn()
  },
  autoLogout: () => {},
  xPackInfo: {
    refresh: jest.fn(),
    get: () => {
      return { license: { type: 'basic' } };
    }
  }
};

describe('UploadLicense', () => {
  beforeEach(() => {
    server = sinon.fakeServer.create();
    server.respondImmediately = true;
    store = licenseManagementStore({}, services);
    component = (<
      Provider store={store}>
        <UploadLicense />
      </Provider>
    );
  });
afterEach(() => {
    server.restore();
    services.xPackInfo.refresh.mockReset();
    services.kbnUrl.change.mockReset();
});

it('should display an error when submitting invalid JSON', async () => {
    const rendered = mount(component);
    store.dispatch(uploadLicense('INVALID', 'trial'));
    rendered.update();
    expect(rendered).toMatchSnapshot();
});

it('should display an error when ES says license is invalid', async () => {
    const rendered = mount(component);
    const invalidLicense = JSON.stringify({
        license: { type: 'basic' }
    });
    server.respond(UPLOAD_LICENSE_INVALID);
    await uploadLicense(invalidLicense)(store.dispatch, null, services);
    rendered.update();
    expect(rendered).toMatchSnapshot();
});

it('should display an error when ES says license is expired', async () => {
    const rendered = mount(component);
    const invalidLicense = JSON.stringify({
        license: { type: 'basic' }
    });
    server.respond(UPLOAD_LICENSE_EXPIRED);
    await uploadLicense(invalidLicense)(store.dispatch, null, services);
    rendered.update();
    expect(rendered).toMatchSnapshot();
});

it('should display a modal when license requires acknowledgement', async () => {
    const unacknowledgedLicense = JSON.stringify({
        license: { type: 'basic' }
    });
    server.respond(UPLOAD_LICENSE_REQUIRES_ACK);
    await uploadLicense(unacknowledgedLicense, 'trial')(store.dispatch, null, services);
    const rendered = mount(component);
    const rendered = mount(component);
    expect(rendered).toMatchSnapshot();
});

it('should refresh xpack info and navigate to BASE_PATH when ES accepts new license', async () => {
    const validLicense = JSON.stringify({
        license: { type: 'basic' }
    });
    server.respond(UPLOAD_LICENSE_SUCCESS);
    await uploadLicense(validLicense)(store.dispatch, null, services);
    expect(services.xPackInfo.refresh).toHaveBeenCalled();
    expect(services.kbnUrl.change).toHaveBeenCalledWith(BASE_PATH);
});
it('should display error when ES returns error', async () => {
    const rendered = mount(component);
    const license = JSON.stringify({ license: { type: 'basic' } });
    server.respond(UPLOAD_LICENSE_TLS_NOT_ENABLED);
    await uploadLicense(license)(store.dispatch, null, services);
    rendered.update();
    expect(rendered).toMatchSnapshot();
});

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 */

import expect from 'expect.js';
import { set } from 'lodash';
import sinon from 'sinon';
import { checkLicense } from '../check_license';

describe('check_license: ', function () {

    let mockLicenseInfo;
    let licenseCheckResult;

    beforeEach(() => {
        mockLicenseInfo = {
            isAvailable: () => true
        };
    });

    describe('mockLicenseInfo is not set', () => {
        beforeEach(() => {
            mockLicenseInfo = null;
            licenseCheckResult = checkLicense(mockLicenseInfo);
        });

        it('should set showAppLink to true', () => {
            expect(licenseCheckResult.showAppLink).to.be(true);
        });

        it('should set enableAppLink to false', () => {
            expect(licenseCheckResult.enableAppLink).to.be(false);
        });
    });

    describe('mockLicenseInfo is set but not available', () => {

        });
beforeEach(() => {
  mockLicenseInfo = { isAvailable: () => false }
  licenseCheckResult = checkLicense(mockLicenseInfo);
});

it ('should set showAppLink to true', () => {
  expect(licenseCheckResult.showAppLink).to.be(true);
});

it ('should set enableAppLink to false', () => {
  expect(licenseCheckResult.enableAppLink).to.be(false);
});

});

describe('graph is disabled in Elasticsearch', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'feature', sinon.stub().withArgs('graph').returns({ isEnabled: () => false }));
    licenseCheckResult = checkLicense(mockLicenseInfo);
  });

  it ('should set showAppLink to false', () => {
    expect(licenseCheckResult.showAppLink).to.be(false);
  });
});

describe('graph is enabled in Elasticsearch', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'feature', sinon.stub().withArgs('graph').returns({ isEnabled: () => true }));
  });

  it ('should set showAppLink to false', () => {
    expect(licenseCheckResult.showAppLink).to.be(false);
  });
});

describe('& license is trial or platinum', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'license.isOneOf', sinon.stub().withArgs([ 'trial', 'platinum' ]).returns(true));
    set(mockLicenseInfo, 'license.getType', () => 'trial');
  });

  describe('& license is active', () => {
    beforeEach(() => {
      set(mockLicenseInfo, 'license.isActive', () => true);
      licenseCheckResult = checkLicense(mockLicenseInfo);
    });

    it ('should set showAppLink to true', () => {
      expect(licenseCheckResult.showAppLink).to.be(true);
    });
  });

  it ('should set enableAppLink to true', () => {
    expect(licenseCheckResult.enableAppLink).to.be(true);
  });
});
describe('& license is expired', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'license.isActive', () => false);
    licenseCheckResult = checkLicense(mockLicenseInfo);
  });

  it ('should set showAppLink to true', () => {
    expect(licenseCheckResult.showAppLink).to.be(true);
  });

  it ('should set enableAppLink to false', () => {
    expect(licenseCheckResult.enableAppLink).to.be(false);
  });
});

describe('& license is neither trial nor platinum', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'license.isOneOf', () => false);
    set(mockLicenseInfo, 'license.getType', () => 'basic');
    set(mockLicenseInfo, 'license.isActive', () => true);
    licenseCheckResult = checkLicense(mockLicenseInfo);
  });

  it ('should set showAppLink to false', () => {
    expect(licenseCheckResult.showAppLink).to.be(false);
  });
});

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 */
import { resolve } from 'path';

import expect from 'expect.js';

import { assertLicensesValid } from './valid';

const ROOT = resolve(__dirname, '../../../../');
const NODE_MODULES = resolve(ROOT, './node_modules');

const PACKAGE = {
  name: '@elastic/httpolyglot',
  version: '0.1.2-elasticpatch1',
  licenses: ['MIT'],
  directory: resolve(NODE_MODULES, '@elastic/httpolyglot'),
  relative: 'node_modules/@elastic/httpolyglot',
};

describe('tasks/lib/licenses', () => {
  describe('assertLicensesValid()', () => {
    it('returns undefined when package has valid license', () => {
      expect(assertLicensesValid({
        packages: [PACKAGE],
        validLicenses: [...PACKAGE.licenses]
      })).to.be(undefined);
    });

    it('throw an error when the packages license is invalid', () => {
      expect(() => {
        assertLicensesValid({
          packages: [PACKAGE],
          validLicenses: ['not ' + PACKAGE.licenses[0]]
        }).toThrowError(PACKAGE.name);
      });
    });

    it('throws an error when the package has no licenses', () => {
      expect(() => {
        assertLicensesValid({
          packages: [
            ...
          ]
        }).toThrowError('No licenses');
      });
    });
  });
});
it('includes the relative path to packages in error message', () => {
  try {
    assertLicensesValid(
      { 
        packages: [PACKAGE],
        validLicenses: ['none']
      });
    throw new Error('expected assertLicensesValid() to throw');
  } catch (error) {
    expect(error.message).to.contain(PACKAGE.relative);
    expect(error.message).to.not.contain(PACKAGE.directory);
  }
});

import React, { Fragment } from 'react';

import {
  EuiIcon,
  EuiFlexGroup,
  EuiFlexItem,
  EuiText,
  EuiTitle,
  EuiSpacer,
} from '@elastic/eui';

export class LicenseStatus extends React.PureComponent {
  render() {
    const { isExpired, status, type, expiryDate } = this.props;
    const typeTitleCase = type.charAt(0).toUpperCase() + type.substr(1).toLowerCase();
    let icon;
    let title;
    let message;
    if (isExpired) {
icon = <EuiIcon color="danger" type="alert" />;
message = (
  <Fragment>
    Your license expired on <strong>{expiryDate}</strong>.
  </Fragment>
);
title = `Your ${typeTitleCase} license has expired`;
} else {
  icon = <EuiIcon color="success" type="checkInCircleFilled" />;
  message = expiryDate ? (
    <Fragment>
      Your license will expire on <strong>{expiryDate}</strong>.
    </Fragment>
  ) : (
    <Fragment>Your license will never expire.</Fragment>
  );
  title = `Your ${typeTitleCase} license is ${status.toLowerCase()}`;
} return (  
<div>
  <EuiFlexGroup justifyContent="spaceAround">
    <EuiFlexItem grow={false}>
      <EuiFlexGroup alignItems="center" gutterSize="s">
        <EuiFlexItem grow={false}>{icon}</EuiFlexItem>
        <EuiFlexItem grow={false}>
          <EuiTitle size="l">
            <h2 data-test-subj="licenseText">{title}</h2>
          </EuiTitle>
        </EuiFlexItem>
      </EuiFlexGroup>
    </EuiFlexItem>
    
  </EuiFlexGroup>
  <EuiFlexGroup justifyContent="spaceAround">
    <EuiFlexItem grow={false}>
      <span data-test-subj="licenseSubText">{message}</span>
    </EuiFlexItem>
  </EuiFlexGroup>
  <EuiSpacer />
</div>
);
export * from './upload_license';
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import { verifyMonitoringLicense } from '../verify_monitoring_license';
import expect from 'expect.js';
import sinon from 'sinon';

describe('Monitoring Verify License', () => {
  describe('Disabled by Configuration', () => {
    const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(false);
    const server = { config: sinon.stub().returns({ get }) };
    
    it('verifyMonitoringLicense returns false without checking the license', () => {
      const verification = verifyMonitoringLicense(server);
      
      expect(verification.enabled).to.be(false);
      expect(verification.message).to.be('Cluster Alerts feature is disabled.');
      expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
    });
  });

  describe('Enabled by Configuration', () => {
    it('verifyMonitoringLicense returns false if enabled by configuration, but not by license', () => {
      const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(true);
      const server = {
        config: sinon.stub().returns({ get },
        plugins: { monitoring: { info: { } } }
      };
      const getLicenseCheckResults = sinon.stub().returns({ clusterAlerts: { enabled: false }, message: 'failed!!' });
      const feature = sinon.stub().withArgs('monitoring').returns({ getLicenseCheckResults });
      server.plugins.monitoring.info = { feature };
      
      const verification = verifyMonitoringLicense(server);
      
      expect(verification.enabled).to.be(false);
      expect(verification.message).to.be('failed!!');
      expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
      expect(feature.withArgs('monitoring').calledOnce).to.be(true);
      expect(getLicenseCheckResults.calledOnce).to.be(true);
    });
  });
});
it('verifyMonitoringLicense returns true if enabled by configuration and by license', () => {
  const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(true);
  const server = {
    config: sinon.stub().returns({ get }),
    plugins: { monitoring: { info: { } } }
  };
  const getLicenseCheckResults = sinon.stub().returns({ clusterAlerts: { enabled: true } });
  const feature = sinon.stub().withArgs('monitoring').returns({ getLicenseCheckResults });
  server.plugins.monitoring.info = { feature };
  const verification = verifyMonitoringLicense(server);
  expect(verification.enabled).to.be(true);
  expect(verification.message).to.be.undefined;
  expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
  expect(feature.withArgs('monitoring').calledOnce).to.be(true);
  expect(getLicenseCheckResults.calledOnce).to.be(true);
});

it('Monitoring feature info cannot be determined', () => {
  const get = sinon.stub().withArgs('xpack.monitoring.cluster_alerts.enabled').returns(true);
  const server = {
    config: sinon.stub().returns({ get }),
    plugins: { monitoring: undefined } // simulate race condition
  };
  const verification = verifyMonitoringLicense(server);
  expect(verification.enabled).to.be(false);
  expect(verification.message).to.be('Status of Cluster Alerts feature could not be determined.');
  expect(get.withArgs('xpack.monitoring.cluster_alerts.enabled').calledOnce).to.be(true);
});
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 */
export { LicenseDashboard } from './license_dashboard';
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 */
export const UPLOAD_LICENSE_EXPIRED = [
  200,
  {
    'Content-Type': 'application/json',
    '{"acknowledged": "true", "license_status": "expired"}'
  }
];

export const UPLOAD_LICENSE_REQUIRES_ACK = [
  200,
  {
    'Content-Type': 'application/json',
    '{
      "acknowledged":false,
      "license_status":"valid",
      "acknowledge":
      {
        "message": "This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the \"acknowledge=true\" parameter:",
        "watcher": ["Watcher will be disabled"]
      }
    }
  }
];

export const UPLOAD_LICENSE_SUCCESS = [
  200,
  {
    'Content-Type': 'application/json',
    '{"acknowledged": "true", "license_status": "valid"}'
  }
];

export const UPLOAD_LICENSE_INVALID = [
  200,
  {
    'Content-Type': 'application/json',
    '{"acknowledged": "true", "license_status": "invalid"}'
  }
];

export const UPLOAD_LICENSE_TLS_NOT_ENABLED = [
  200,
  {
    'Content-Type': 'application/json',
    '{
      "error":
      {
        "root_cause":
        {
          "type": "illegal_state_exception",
          "reason": "Can not upgrade to a production license unless TLS is configured or security is disabled"
        }
      }
    }
  }
];
import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicenseFactory } from '../check_license';

describe('check_license', function () {

    let mockLicenseInfo;
    let checkLicense;

    beforeEach(() => {
        mockLicenseInfo = {
            getAll: () => [{
                id: 'test',
                name: 'Test Export Type',
                jobType: 'testJobType'
            }]
        };
    });

    describe('license information is not available', () => {
        beforeEach(() => mockLicenseInfo.isAvailable = () => false);

        it('should set management.showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
        });

        it('should set test.showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
        });

        it('should set management.enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(false);
        });

        it('should set test.enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(false);
        });
    });
});
describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it ('should set management.showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
      });

      it ('should set test.showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
      });

      it ('should set management.enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).management.enableLinks).to.be(true);
      });

      it ('should set test.enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).test.enableLinks).to.be(true);
      });

      it ('should set management.jobTypes to contain testJobType', () => {
        expect(checkLicense(mockLicenseInfo).management.jobTypes).to.contain('testJobType');
      });

    });

  });

  describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it ('should set management.showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
    });

    it ('should set test.showLinks to true', () => {
      expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(true);
    });

  });

});
describe('& license is basic', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));

    describe('& license is active', () => {
        beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

        it ('should set management.showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
        });

        it ('should set test.showLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(false);
        });

        it('should set management.jobTypes to an empty array', () => {
            expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be.an(Array);
            expect(checkLicense(mockLicenseInfo).management.jobTypes).to.have.length(0);
        });
    });

    describe('& license is expired', () => {
        beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

        it ('should set management.showLinks to true', () => {
            expect(checkLicense(mockLicenseInfo).management.showLinks).to.be(true);
        });

        it ('should set test.showLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).test.showLinks).to.be(false);
        });

        it('should set management.jobTypes to undefined', () => {
            expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be(undefined);
        });
    });
});
expect(checkLicense(mockLicenseInfo).management.jobTypes).to.be(undefined);
}
});
});
});
});
{
"name": "foo",
"version": "1.0.0",
"license": "Apache 2.0"
}
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*/
import { uiModules } from 'ui/modules';
import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import 'ui/url';
import { LicenseService } from './license_service';

uiModules.get('xpack/watcher')
.factoy('xpackWatcherLicenseService', ($injector) => {
    const $http = $injector.get('$http');
    const Private = $injector.get('Private');
    const xpackInfoService = Private(XPackInfoProvider);
    const kbnUrlService = $injector.get('kbnUrl');
    const $timeout = $injector.get('$timeout');

    return new LicenseService(xpackInfoService, kbnUrlService, $timeout, $http);
});
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*/
export { LicenseDashboard } from './license_dashboard';
export { UploadLicense } from './upload_license';
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*/
import { createAction } from 'redux-actions';
export const addUploadErrorMessage =
createAction('LICENSE_MANAGEMENT_ADD_UPLOAD_ERROR_MESSAGE');
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eroexport function checkLicense(xpackLicenseInfo) {

if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
        showAppLink: true,
        enableAppLink: false,
        message: 'Search Profiler is unavailable - license information is not available at this time.'
    };
}

const isLicenseActive = xpackLicenseInfo.license.isActive();
let message;
if (!isLicenseActive) {
    message = 'Search Profiler is unavailable - license has expired.';
}

if (xpackLicenseInfo.license.isOneOf(['trial', 'basic', 'standard', 'gold', 'platinum'])) {
    return {
        showAppLink: true,
        enableAppLink: isLicenseActive,
        message
    };
}

message = 'Search Profiler is unavailable for the current ${xpackLicenseInfo.license.getType()} license. Please upgrade your license.';
return {
    showAppLink: false,
    enableAppLink: false,
    message
};
}
PNG
Open Source Used In Cisco VIM 3.4.6

3325
Sed fm/5k*Ttq.?@[JdO)C4zzW]fTUc/m 3334

<\]Sedfm/5k*+Ttq.?@[JdO)C4zzW]fTUc/m 3334

13G=jkP<\]Sedfm/5k*+Ttq.?@[JdO)C4zzW]fTUc/m 3334

13G=jkP Wio)qs*6P"F]\mnZ @biZAO@\:dMg8*,6RQF{Y&R"5Una#=S3bU5u^&<\}vpZU%/\Gn3*v
+zDlhzgy` Z\ZCu_.\uon7jheYF-7Y
3@Vj1hMmnRW@aa-]%<\}
JClAmK333,RJjWYU^x
zgGxOM.lC;U -1-aCY1>BX[d{G?oR'tCz6,SYJS#M,Z&8"^D-B/0Xb'Hl
S&zk

'U+-.v\C*6a-\NKn)6hX:*K{Ji?E6?)-e @j-uC597u*Ix!IDATyU^}6cla>y'b-H
"Y.p)\AlkdP!
#qs.8%=i\gEYRb%.j--; D=M=sZWWog\{zG{+6{Cpz\U}itI+s>[Q\^4\V\:;]cn# T=(t{QP\}Z\*\Yoob**52-u"
8OWQp5J[\M[@@x
-yX@+@+*."@@Ji BSyX>[\Fva: mC+C_(6,h% D@AA-VZkHKL $PTTb%"p\j@Z\[5_ -BmY])\]cY4=\Cz\>.+WnEe
?MCowMno<\-\<\Mg=r{z\7g+J\Ew p-O<nnmn{^Ej\jndgg7"u55V)])^C\tx[P.Pmk
B>5nwb(*V\* X *\oc=D)X\bKJIE\NDB`
<\div
class="kuiView"

tyle="background-color: pink"
>
<\div
class="kuiViewContent kuiViewContent--constrainedWidth"

tyle="background-color: pink"
>
<\div class="kuiNotice">
<h1 class="kuiTitle kuiVerticalRhythm">
<br class="kuiIcon kuiIcon--error fa-warning"></h1>

Notice title
<h1>

<p class="kuiText kuiVerticalRhythm">
You can use the Notice component to present content in the center of the content area, within a container with a narrow, fixed width.
</p>

<p class="kuiText kuiVerticalRhythm">
The pink color is just for demonstration purposes.
</p>
import { registerRefreshRoute } from './register_refresh_route';

export function registerLicenseRoutes(server) {
  registerRefreshRoute(server);
}

export { registerLicenseRoute } from './register_license_route';
export { registerStartBasicRoute } from './register_start_basic_route';
export { registerStartTrialRoutes } from './register_start_trial_routes';

import { createAction } from 'redux-actions';
import { canStartTrial, startTrial } from '../../lib/es';
import { toastNotifications } from 'ui/notify';

export const trialStatusLoaded = createAction(
  'LICENSE_MANAGEMENT_TRIAL_STATUS_LOADED'
);

export const loadTrialStatus = () => async dispatch => {
  const trialOK = await canStartTrial();
  dispatch(trialStatusLoaded(trialOK));
};

export const startLicenseTrial = () => async (dispatch,
  getState,
  { xPackInfo }
) => {
  /*eslint camelcase: 0*/
const { trial_was_started, error_message } = await startTrial();
if (trial_was_started) {
    await xPackInfo.refresh();
    // reload necessary to get left nav to refresh with proper links
    window.location.reload();
} else {
    return toastNotifications.addDanger(error_message);
}

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*/

import React from 'react';
import { XPackInfoProvider } from 'plugins/xpack_main/services/xpack_info';
import { Notifier, banners } from 'ui/notify';
import chrome from 'ui/chrome';
import { EuiCallOut } from '@elastic/eui';

let licenseHasExpired = true;
let expiredLicenseBannerId;

export function checkLicense(Private, kbnBaseUrl) {
    const xpackInfo = Private(XPackInfoProvider);
    const features = xpackInfo.get('features.ml');

    const licenseAllowsToShowThisPage = features.isAvailable;
    if (!licenseAllowsToShowThisPage) {
        const message = features.message;
        let queryString = `?${Notifier.QS_PARAM_LOCATION}=Machine Learning&`;
        queryString += `${Notifier.QS_PARAM_LEVEL}=error&${Notifier.QS_PARAM_MESSAGE}=${message}`;
        const url = `${chrome.addBasePath(kbnBaseUrl)}#${queryString}`;
        window.location.href = url;
        return Promise.halt();
    }

    licenseHasExpired = features.hasExpired || false;

    // If the license has expired ML app will still work for 7 days and then
    // the job management endpoints (e.g. create job, start datafeed) will be restricted.
    // Therefore we need to keep the app enabled but show an info banner to the user.
    if(licenseHasExpired) {
        const message = features.message;
        if (expiredLicenseBannerId === undefined) {

// Open Source Used In Cisco VIM 3.4.6 3336
// Only show the banner once with no way to dismiss it
expiredLicenseBannerId = banners.add({
  component: (
    <EuiCallOut
      iconType="iInCircle"
      color="warning"
      title={message}
    />
    ),
  });
}

return Promise.resolve(features);
}

// a wrapper for checkLicense which doesn't resolve if the license has expired.
// this is used by all create jobs pages to redirect back to the jobs list
// if the user's license has expired.
export function checkLicenseExpired(Private, Promise, kbnBaseUrl, kbnUrl) {
  return checkLicense(Private, Promise, kbnBaseUrl)
    .then((features) => {
      if (features.hasExpired) {
        kbnUrl.redirect('/jobs');
        return Promise.halt();
      } else {
        return Promise.resolve(features);
      }
    })
    .catch(() => {
      return Promise.halt();
    });
}

export function getLicenseHasExpired() {
  return licenseHasExpired;
}

export function xpackFeatureProvider(Private) {
  const xpackInfo = Private(XPackInfoProvider);
  function isAvailable(feature) {
    return xpackInfo.get(`features.${feature}.isAvailable`, false);
  }

  return {
    isAvailable
  };
}
IHDR.GsRGB@IDATx VO
[#KPDGmk|kZWu|%[%7][29W?/w9_|\u_BQ};T+0F#;hd7SSD%tIoF#;1MF#;0Fq0q#;0FLq9
o0F#;SIG|-[0F#;1MF#;0Fq0q#;0FLq9
o0F#;FJzrl[;N-vIjZFlfHFId7t;\b+]W;"v&Ki=[|C3fm9 k]Z$YRXTK
d9FKE]E0SJjSE
v#;86q=k;g-3k;-
5M?k=;U2kk;&M*CyDj*k;Tiq"zB9=#;{^Sz};_-IFx?o.zq,U;bvR/R5|N9uLTdvgAv;iK{R%;F#PB02l
ekJlE=JU@;U1edw GJKWtTX>UX797JR;m|Fx<x;QLGpLS+FAJ%Iu"#H
CAWjs0%.3OrX"bbHmM"[;ZF-[nyGdZzch-TA nkx6f&PXrK+r+=Mesnl"Np-{e-
1SBBA=88HdLYUJm};CTR3TQZ=#I2
k8ousu%R#/wHxfr-FFe|r6>Ar;dbBnF=w,.Q;--[oe|I&S&O#-->g:;[kJPEAA2s*.ddv"y;Y;D6QPI+JJa#]!
cB3jH
BQL[;YZ_SXzvh#7S;[k]l+wJl
w7oYEk;y(ktn,YZ#-[TP)m3lw\1leg7i,.TN/ eU6Z';>$/^++-;Y?.&l4JT)|R3)Vj3oPE&2-h/4^;
?v0ewgA4,O$[f,>rFwEyf-k-g
!C6nlee-#UgkN/%Iyekkp^vLGoM"F.Wz)[f,q[57?lqX9wXoJi s]9u*hlyLQYG(TaLo1up$>$;%IWOQ-
qeii|7l8[E(kwItZu*;*
}y[U! 6o[2YUt_75-S&-$u?D70F#p]*?B^9Q(Wcb!F;Zj)*vqbfLR[SjFV|,^mAe<;oBi-w7JK0]Ve"yx*_,90:JOyD-
_#%My4[CHLI?；MD+<]+Z[[%<o/=XyIfEj_.T
!,R%Y+yA/=]1/JC0@Rs$FT;Gzv,-6svVMd&RTSw@KW%o/M[vR%m Qo6_)
ON-B6h3D0NSx7mS5
7n?9^;[?)V%3(D'zryu2/KK'h/)]!A*+ergEKnQL-{6/s}ysIa[p ;S~ZYBJ)?/]]
Lvy2FNCW.>lFIQ0[tur'tnJPA?7N(zOvP]?Uz;9eNfYkTz|E
RJcti[GFjGhU5S5?+;wDFpC0"h-duz]YL(4<K>-.wn-
C:4nUb#4Gl>o-2rT]).qZ4fX);K70s4Hhgg=#dmY$%MUA]# ^&.*-*mzk2>:<.xQIZ\<<se200-
d]][RjGFrGr%0uAq;wH8z][2jG#;M>-;LrR{@%s.2gm.KPQ-4'
r2pF#:bi2RYr^d,F;g[Y;dL]
TP+DTM-
&tt@O|VW]
)kX<-[ylZ}Pu(rvxrxe,m,k;>l[7]kh[j6=Q--y)uCYf#/48V,";jYu"c+R'~FbwoaV][aH:PV;EDnrU
z^m%3o/,
=[t
(c/m.orU)J]ZWYq[;Ter[&][sX^*cC36E0O_.]mj
HemK32?N-d$>FZ
VX/mb]|LO.WYqf2#e9>y{ZIeZgTxYxim&v!gL,[wQ&FPfIAUe4)np85Y52I{d!iIo1I2CzY
RzJXa<2z-[+Jm/zO];6j;W9<s]HARVgwX(gQ-1 Bjvn#faz(q<v@o?o~)Y^y0FGv
B#ztS8;k*+C(Tg;Tq_&QmUa]W0vgCRW*;y;SeGmWBV;G"n6!7<u
~ieX7ITYn_.[\;yHUTVtRb0;G35Be7(UtEpu":Z+y;GnsYnE*Q*V.h;I*
OhZjlg]KtDa*"/G6L*P][t[d_UJ9iFy.J+pFISM=CHyM
UUP=S+BTZ;WbVFVU3ZG7?ArSIl20aw8.1JwB;Q
vGGBJU*+!*;iH2z6d]tgQ2EGQVfl_4rl;DPGW2PQj(Y*,r<fyA?DJK};$9,sn;9+SZ8'n-<o73sDAJ
>b2"^#Mg,yUJB]n].zEx)-dMP*:evjR{rP6C=&qKIQ{=$3NQk{[ ]}k0FNqQZ^u;^1;LO;Vy%J
w
n"GhtNvri[wP9cSUHZ;D l-Pu
Vn;}[|Lwmt+-&eWGA!=;nV+5jHkD"^Tz*NRS$%h-7j)-EN9_Y[
GeGkVA,%%=+GwGoi.lJUsZxTD]
LvsnhcU;kJ)eNy3T?Og9%NmiZ3u<w9u[f(F4>d]fo7Uy-VNUS

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*/

import React from 'react';

import {
  GuideDemo,
  GuideSandbox,
  GuideSandboxCodeToggle,
  GuideSectionTypes,
} from '../../components';

const html = require('./notice_sandbox.html');

export default props => (
  <GuideSandbox>
    <GuideDemo
      isFullScreen={true}
      html={html}
    />
    
    <GuideSandboxCodeToggle
      source={[{
        type: GuideSectionTypes.HTML,
        code: html,
      }]} title={props.route.name}
    />
  </GuideSandbox>
); /*
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import './license_service.factory';
import React from 'react';

import { EuiFlexItem, EuiCard, EuiLink, EuiButton } from '@elastic/eui';

export const RequestTrialExtension = ({ shouldShowRequestTrialExtension }) => {
if (!shouldShowRequestTrialExtension) {
    return null;
}

const description = (
    <span>
        If youd like to continuing using security, machine learning, and our 
        other awesome{' '}<EuiLink 
            href="https://www.elastic.co/subscriptions/xpack"
            target="_blank"
            >
        Platinum features
        </EuiLink>, request an extension now.
    </span>
);

return (
    <EuiFlexItem>
        <EuiCard
            title="Extend your trial"
            description={description}
            footer={
                <EuiButton
                    data-test-subj="extendTrialButton"
                    style={[ { marginTop: 'auto' } ]}
                    target="_blank"
                    href="https://www.elastic.co/trialextension"
                >
                    Extend trial
                </EuiButton>
            }
    
    </EuiFlexItem>
);
import { combineReducers } from 'redux';
import { license } from './license';
import { uploadStatus } from './upload_status';
import { startBasicStatus } from './start_basic_license_status';
import { uploadErrorMessage } from './upload_error_message';
import { trialStatus } from './trial_status';
import moment from 'moment-timezone';

export const WARNING_THRESHOLD_IN_DAYS = 25;

export const licenseManagement = combineReducers({
  license,
  uploadStatus,
  uploadErrorMessage,
  trialStatus,
  startBasicStatus
});

export const getLicense = state => {
  return state.license;
};

export const getLicenseType = state => {
  return getLicense(state).type;
};

export const getExpirationMillis = state => {
  return getLicense(state).expiryDateInMillis;
};

export const getExpirationDate = state => {
  //basic licenses do not expire
  if (getLicenseType(state) === 'basic') {
    return null;
  }
  const expirationMillis = getExpirationMillis(state);
  if (expirationMillis) {
    return moment.tz(expirationMillis, moment.tz.guess());
  } else {
    return null;
  }
};

export const getExpirationDateFormatted = state => {
  const expirationDate = getExpirationDate(state);
  const expirationDate = getExpirationDateFormatted = state => {
  const expirationDate = getExpirationDate(state);
  return expirationDate;
};
return expirationDate ? expirationDate.format('LL z') : null;
};

export const isExpired = state => {
    return new Date().getTime() > getExpirationMillis(state);
};

export const isImminentExpiration = state => {
    const now = new Date();
    const expirationDate = getExpirationDate(state);
    return (
        expirationDate &&
        expirationDate.isAfter(now) &&
        expirationDate.diff(now, 'days') <= WARNING_THRESHOLD_IN_DAYS
    );
};

export const shouldShowRevertToBasicLicense = state => {
    const [ type ] = getLicense(state);
    return type === 'trial' || isImminentExpiration(state) || isExpired(state);
};

export const uploadNeedsAcknowledgement = state => {
    return !!state.uploadStatus.acknowledge;
};

export const isApplying = state => {
    return !!state.uploadStatus.applying;
};

export const uploadMessages = state => {
    return state.uploadStatus.messages;
};

export const isInvalid = state => {
    return !!state.uploadStatus.invalid;
};

export const getUploadErrorMessage = state => {
    return state.uploadErrorMessage;
};

export const shouldShowStartTrial = state => {
    const licenseType = getLicenseType(state);
    return (state.trialStatus.canStartTrial &&
        licenseType !== 'trial' &&
        //don't show for platinum unless it is expired
const shouldShowRequestTrialExtension = state => {
    if (state.trialStatus.canStartTrial) {
        return false;
    }
    const { type } = getLicense(state);
    return type !== 'platinum' || isExpired(state);
};

const startTrialError = state => {
    return state.trialStatus.startTrialError;
};

const startBasicLicenseNeedsAcknowledgement = state => {
    return !!state.startBasicStatus.acknowledge;
};

const getStartBasicMessages = state => {
    return state.startBasicStatus.messages;
};

"xpack.license.delete": {
    "methods": [
        "DELETE"
    ],
    "patterns": [
        ".xpack/license"
    ],
    "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}

NOTE: Watcher must be enabled to view cluster alerts. If you have a Basic license, Top Cluster Alerts are not displayed.
/*
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const babelEsLint = require('babel-eslint');

const { assert, normalizeWhitespace, init } = require('../lib');

module.exports = {
  meta: {
    fixable: 'code',
    schema: [{
      type: 'object',
      properties: {
        licenses: {
          type: 'array',
          items: {
            type: 'string'
          }
        }
      },
      additionalProperties: false
    }]
  },
  create: context => {
    return {
      Program(program) {
        const nodeValues = init(context, program, () => {
          const options = context.options[0] || {};
          const licenses = options.licenses;

          assert(!!licenses, ""licenses" option is required");

          return licenses.map((license, i) => {
            const parsed = babelEsLint.parse(license);

            assert(parsed.body.length, `"licenses[${i}]" option must only include a single comment");
            assert(parsed.comments.length === 1, `"licenses[${i}]" option must only include a single comment");

            return normalizeWhitespace(parsed.comments[0].value);
          })
        });
      }
    }
  }
}
const sourceCode = context.getSourceCode();

sourceCode
  .getAllComments()
  .filter(node => (
    nodeValues.find(nodeValue => (
      normalizeWhitespace(node.value) === nodeValue
    ))
  )
  ).forEach(node => {
    context.report({
      node,
      message: 'Remove outdated license header.',
      fix(fixer) {
        return fixer.remove(node);
      }
    });
  });

iéndo

import React from 'react';
import { toastNotifications } from 'ui/notify';
import { MarkdownSimple } from 'ui/markdown';
import chrome from 'ui/chrome';
import { PLUGIN, ROUTES } from '../../../common/constants';

export class LicenseService {
  constructor(xpackInfoService, kbnUrlService, $timeout, $http) {
    this.$http = $http;
    this.xpackInfoService = xpackInfoService;
    this.kbnUrlService = kbnUrlService;
    this.$timeout = $timeout;
    this.basePath = chrome.addBasePath(ROUTES.API_ROOT);
  }

  get showLinks() {
    return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.showLinks`));
  }

  get enableLinks() {

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return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.enableLinks`));
}

get isAvailable() {
  return Boolean(this.xpackInfoService.get(`features.${PLUGIN.ID}.isAvailable`));
}

get message() {
  return this.xpackInfoService.get(`features.${PLUGIN.ID}.message`);
}

notifyAndRedirect() {
  toastNotifications.addDanger({
    title: <MarkdownSimple>{this.xpackInfoService.get(`features.${PLUGIN.ID}.message`)}</MarkdownSimple>,
  });
  this.kbnUrlService.redirect(`/management`);
}

/**
 * @param opts Object options
 * @param opts.onValid Function To execute when license is valid. Optional; default = noop
 * @param opts.onInvalid Function To execute when license is invalid. Optional; default = noop
 */
checkValidity() {
  return new Promise((resolve, reject) => {
    this.$timeout(() => {
      if (this.isAvailable) {
        return resolve();
      }
      this.notifyAndRedirect();
      return reject();
    }, 10); // To allow latest XHR call to update license info
  });
}

refreshLicense() {
  return this.$http.get(`${this.basePath}/license/refresh`)
    .then(response => {
      return response.data.success;
    });
}

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 */
import React from 'react';
import LicenseStatus from './license_status';
import RevertToBasic from './revert_to_basic';
import StartTrial from './start_trial';
import AddLicense from './add_license';
import RequestTrialExtension from './request_trial_extension';
import EuiFlexGroup,
    EuiFlexItem,
    EuiSpacer
} from '@elastic/eui';

export const LicenseDashboard = () => {
    return (
        <div className="licenseManagement__contain">
            <EuiFlexGroup justifyContent="spaceAround">
                <LicenseStatus />
            </EuiFlexGroup>
            <EuiSpacer size="l" />
            <EuiFlexGroup justifyContent="spaceAround">
                <EuiFlexItem>
                    <AddLicense />
                </EuiFlexItem>
                <StartTrial />
                <RequestTrialExtension />
                <RevertToBasic />
            </EuiFlexGroup>
        </div>
    );
};

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 */

import handleActions from 'redux-actions';
import trialStatusLoaded from './actions/start_trial';

export const trialStatus = handleActions({
    [trialStatusLoaded](state, { payload }) {
        return {
            canStartTrial: payload
        };
    },
});
import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {
  let mockLicenseInfo;
  beforeEach(() => mockLicenseInfo = {});

describe('license information is not available', () => {
  beforeEach(() => mockLicenseInfo.isAvailable = () => false);

  it('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showAppLink).to.be(true);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableAppLink).to.be(false);
  });
});

describe('license information is available', () => {
  beforeEach(() => {
    mockLicenseInfo.isAvailable = () => true;
    set(mockLicenseInfo, 'license.getType', () => 'basic');
  });

  describe('& license is trial, standard, gold, platinum', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => true));

    describe('& license is active', () => {
      beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

      it('should set showLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).showAppLink).to.be(true);
      });

      it('should set enableLinks to true', () => {
        expect(checkLicense(mockLicenseInfo).enableAppLink).to.be(true);
      });
    });
  });
});
describe('& license is expired', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));
  it ('should set showLinks to true', () => {
    expect(checkLicense(mockLicenseInfo).showAppLink).to.be(true);
  });
  it ('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableAppLink).to.be(false);
  });
});

describe('& license is basic', () => {
  beforeEach(() => set(mockLicenseInfo, 'license.isOneOf', () => false));
  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));
    it ('should set showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).showAppLink).to.be(false);
    });
  });
  describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));
    it ('should set showLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).showAppLink).to.be(false);
    });
  });
});

[[managing-licenses]]

== License Management

When you install {kib}, it generates a Basic license with no expiration date. To start a 30-day trial, view the status of your license, or install a new license go to *Management* and click *License Management*.

[role="screenshot"]
image::images/management-license.png[]}
The 30-day trial enables you to try out the full set of https://www.elastic.co/subscriptions[Platinum features], including security, machine learning, alerting, graph capabilities, and more. For example, the following pages are added to the side navigation:

* **Machine Learning**
* **Graph**

The **Management** page gains options related to configuring security, managing {ls} pipelines, and using {watcher}.

At the end of the trial period, the Platinum features operate in a {stack-ov}/license-expiration.html[degraded mode]. You can revert to a Basic license, extend the trial, or purchase a subscription.

For a comparison of the Elastic license levels, see https://www.elastic.co/subscriptions[the subscription page].

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 */

const babelEslint = require('babel-eslint');

const { assert, normalizeWhitespace, init } = require('..//lib');

function isHashbang(text) {
    return text.trim().startsWith('#!') && !text.trim().includes('
');
}

module.exports = {
    meta: {
        fixable: 'code',
        schema: [{

```
type: 'object',
properties: {
  license: {
    type: 'string',
  },
},
additionalProperties: false,
}
,
create: context => {
  return {
    Program(program) {
      const license = init(context, program, function () {
        const options = context.options[0] || {};
        const license = options.license;

        assert(!!license, "license" option is required);

        const parsed = babelEslint.parse(license);
        assert(parsed.body.length, "license" option must only include a single comment');
        assert(parsed.comments.length === 1, "license" option must only include a single comment');

        return {
          source: license,
          nodeValue: normalizeWhitespace(parsed.comments[0].value)
        };
      });
    };
  });

  if (!license) {
    return;
  }

  const sourceCode = context.getSourceCode();
  const comment = sourceCode.getAllComments().find(node => (normalizeWhitespace(node.value) === license.nodeValue
                                              ));

  // no licence comment
  if (!comment) {
    context.report({
      message: 'File must start with a license header',
      loc: {
        start: { line: 1, column: 0 },
        end: { line: 1, column: sourceCode.lines[0].length - 1 }
      },
      fix(fixer) {
        if (isHashbang(sourceCode.lines[0])) {
          return undefined;
        }
      }
    });
  }
}
export function checkLicense(xpackLicenseInfo) {
  // If, for some reason, we cannot get the license information
  // from Elasticsearch, assume worst case and disable the Logstash pipeline UI
  if (!xpackLicenseInfo || !xpackLicenseInfo.isAvailable()) {
    return {
      isAvailable: false,
      enableLinks: false,
      isReadOnly: false,
      message: 'You cannot manage Logstash pipelines because license information is not available at this time.'
    };
  }

  // ensure there is nothing before the comment
  const sourceBeforeNode = sourceCode.getText().slice(0, sourceCode.getIndexFromLoc(comment.loc.start));
  if (sourceBeforeNode.length && !isHashbang(sourceBeforeNode)) {
    context.report({
      node: comment,
      message: 'License header must be at the very beginning of the file',
      fix(fixer) {
        // replace leading whitespace if possible
        if (sourceBeforeNode.trim() === '') {
          return fixer.replaceTextRange([0, sourceBeforeNode.length], '');
        }

        // inject content at top and remove node from current location
        // if removing whitespace is not possible
        return [
          fixer.remove(comment),
          fixer.replaceTextRange([0, 0], license.source + '\n\n'),
        ];
      }
    });
  }

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  */
}
const VALID_LICENSE_MODES = [
'trial',
'standard',
'gold',
'platinum'
];

const isLicenseModeValid = xpackLicenseInfo.license.isOneOf(VALID_LICENSE_MODES);
const isLicenseActive = xpackLicenseInfo.license.isActive();
const licenseType = xpackLicenseInfo.license.getType();
const isSecurityEnabled = xpackLicenseInfo.feature('security').isEnabled();

// Security is not enabled in ES
if (!isSecurityEnabled) {
    const message = 'Security must be enabled in order to use Logstash pipeline management features.' + ' Please set xpack.security.enabled: true in your elasticsearch.yml.';
    return {
        isAvailable: false,
        enableLinks: false,
        isReadOnly: false,
        message
    };
}

// License is not valid
if (!isLicenseModeValid) {
    return {
        isAvailable: false,
        enableLinks: false,
        isReadOnly: false,
        message: `Your ${licenseType} license does not support Logstash pipeline management features. Please upgrade
your license.`
    };
}

// License is valid but not active, we go into a read-only mode.
if (!isLicenseActive) {
    return {
        isAvailable: true,
        enableLinks: true,
        isReadOnly: true,
        message: `You cannot edit, create, or delete your Logstash pipelines because your ${licenseType} license has expired.`
    };
}
// License is valid and active
return {
  isAvailable: true,
  enableLinks: true,
  isReadOnly: false
};
*/

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export { RequestTrialExtension } from './request_trial_extension.container';
*/

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*/

import { handleActions } from 'redux-actions';

import { uploadLicenseStatus } from './actions/upload_license';

export const uploadStatus = handleActions({
  [uploadLicenseStatus](state, { payload }) {
    return payload;
  }
}, {});

{ "xpack.license.post_start_basic": {
  "url_params": {
    "acknowledge": "__flag__"
  },
  "methods": [
    "POST"
  ],
  "patterns": [
    "_xpack/license/start_basic"
  ],
  "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}
}

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 */

const { RuleTester } = require('eslint');
const rule = require('./remove_outdated_license_header');
const dedent = require('dedent');

const RULE_NAME = '@kbn/license-header/remove-outdated-license-header';

const ruleTester = new RuleTester(
    
    parser: 'babel-eslint',
    parserOptions: {
        ecmaVersion: 2015
    }
    
);

ruleTester.run(RULE_NAME, rule, {
    valid: [
        {
            code: dedent`
            /* license */
            
            console.log('foo')
            
            options: [{
                licenses: [
                    '// license'
                ]
            }],
        },
        {
            code: dedent`
            // license
            
            console.log('foo')
            
            options: [{
                licenses: [
                    '/* license */'
                ]
            }],
        }
    ],

    invalid: [
        // missing license option
        {
            code: dedent`
            
            console.log('foo')
            
            options: []
        }
    ]
});

errors: [
    {
        message: '"licenses" option is required',
    }
],

// license cannot contain multiple block comments
{
    code: dedent`
    console.log('foo')
`,
    options: [{
        licenses: [
            '/* one */ /* two */'
        ]
    }],
    errors: [
        {
            message: '"licenses[0]" option must only include a single comment',
        }
    ]
},

// license cannot contain multiple line comments
{
    code: dedent`
    console.log('foo')
`,
    options: [{
        licenses: [
            `// one
            // two`
        ]
    }],
    errors: [
        {
            message: '"licenses[0]" option must only include a single comment',
        }
    ]
},

// license cannot contain expressions
{
    code: dedent`
    console.log('foo')
`,
    options: [null],
    errors: [
        {
            message: '"licenses[0]" option must only include a single comment',
        }
    ]
}
options: [{
  licenses: [
    '/* license */
    console.log('hello world');
  ]
},
errors: [
  {
    message: "'licenses[1]' option must only include a single comment",
  }
},
]
,
// license is not a single comment
{
  code: dedent`
    console.log('foo')
  `,
  options: [{
    licenses: [
      '/* old license',
    ]
  },
  errors: [
    {
      message: "'licenses[2]' option must only include a single comment",
    }
  ]
},
],

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import { mirrorPluginStatus } from '../server/lib/mirror_plugin_status';
import { checkLicense } from '../check_license';
import { PLUGIN } from '../common/constant';
export function registerLicenseChecker(server) {
    const xpackMainPlugin = server.plugins.xpack_main;
    const logstashPlugin = server.plugins.logstash;

    mirrorPluginStatus(xpackMainPlugin, logstashPlugin);
    xpackMainPlugin.status.once('green', () => {
        // Register a function that is called whenever the xpack info changes,
        // to re-compute the license check results for this plugin
        xpackMainPlugin.info.feature(PLUGIN.ID).registerLicenseCheckResultsGenerator(checkLicense);
    });
}

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import { connect } from 'react-redux';

import { RequestTrialExtension as PresentationComponent } from './request_trial_extension';
import { shouldShowRequestTrialExtension } from '../../../store/reducers/licenseManagement';

const mapStateToProps = state => {
    return {
        shouldShowRequestTrialExtension: shouldShowRequestTrialExtension(state),
    };
};

export const RequestTrialExtension = connect(mapStateToProps)(
    PresentationComponent
);

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import { handleActions } from 'redux-actions';
import { startBasicLicenseStatus, cancelStartBasicLicense } from '../actions/start_basic';

export const startBasicStatus = handleActions({
    [startBasicLicenseStatus](state, { payload }) {
        return payload;
    },
});
[cancelStartBasicLicense]()
{
    return {};
}
}

"xpack.license.get": {
    "url_params": {
        "local": "__flag__"
    },
    "methods": [
        "GET"
    ],
    "patterns": [
        "_xpack/license"
    ],
    "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}

Kibana source code with Kibana X-Pack source code
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---

Pretty handling of logarithmic axes.
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Created by Arne de Laat
Set axis.mode to "log" and make the axis logarithmic using transform:

```javascript
axis: {
  mode: 'log',
  transform: function(v) {v <= 0 ? Math.log(v) / Math.LN10 : null},
  inverseTransform: function(v) {Math.pow(10, v)}
}
```

The transform filters negative and zero values, because those are invalid on logarithmic scales.
This plugin tries to create good looking logarithmic ticks, using unicode superscript characters. If all data to be plotted is between two powers of ten then the default flot tick generator and renderer are used. Logarithmic ticks are places at powers of ten and at half those values if there are not to many ticks already (e.g. [1, 5, 10, 50, 100]). For details, see https://github.com/flot/flot/pull/1328

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https://github.com/jserz/js_piece

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---

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const { RuleTester } = require('eslint');
const rule = require('../require_license_header');
const dedent = require('dedent');

const RULE_NAME = '@kbn/license-header/require-license-header';

const ruleTester = new RuleTester({
  parser: 'babel-eslint',
  parserOptions: {
    ecmaVersion: 2015
  }
});

ruleTester.run(RULE_NAME, rule, {
  valid: [
    {
      code: dedent`
        /* license */
        console.log('foo')
      `,
      options: [{ license: '/* license */' }],
    },
    {
      code: dedent`
        // license
        console.log('foo')
      `,
      options: [{ license: '// license' }],
    }
  ],
  invalid: [
    { // missing license option
      code: dedent`
        console.log('foo')
      `,
      options: [],
    }
  ],
});
errors: [
{
    message: "'license" option is required',
}
],

// content cannot contain multiple block comments
{
    code: dedent'
        console.log('foo')
    ,
    options: [
        { license: '/* one */ two */' }
    ],
    errors: [
        {
            message: "'license" option must only include a single comment',
        }
    ],
},

// content cannot contain multiple line comments
{
    code: dedent'
        console.log('foo')
    ,
    options: [
        { license: `// one
        // two` }
    ],
    errors: [
        {
            message: "'license" option must only include a single comment',
        }
    ],
},

// content cannot contain expressions
{
    code: dedent'
        console.log('foo')
    ,
    options: [
        { license: dedent'
        },
}
/* license */
   console.log('hello world');
   
   },
],
errors: [
   {
   message: "license" option must only include a single comment',
   }]
],

// content is not a single comment
{
   code: dedent'
   console.log('foo')
   ',

   options: [
   {
   license: 'console.log('hello world');' }]
   ],
   errors: [
   {
   message: "license" option must only include a single comment',
   }]
   },

// missing license header
{
   code: dedent'
   console.log('foo')
   ',

   options: [{ license: /* license */ }],
   errors: [
   {
   message: 'File must start with a license header',
   }]
   ],

   output: dedent'
   /* license */
   console.log('foo')
   ',
   ],
// strips newlines before the license comment
{
  code: '\n\n' + dedent
  /* license */

  console.log('foo')
`,

  options: [{ license: '/* license */' }],
  errors: [
    {
      message: 'License header must be at the very beginning of the file',
    }
  ],

  output: dedent
  /* license */

  console.log('foo')
`},

// moves license header before other nodes if necessary
{
  code: dedent
  /* not license */
  /* license */
  /* license */

  console.log('foo')
`,

  options: [{ license: '/* license */' }],
  errors: [
    {
      message: 'License header must be at the very beginning of the file',
    }
  ],

  output: dedent
  /* license */

  /* not license */

  /* license */

  console.log('foo')
`},

};
import expect from 'expect.js';
import { licensePreRoutingFactory } from '../license_pre_routing_factory';

describe('license_pre_routing_factory', () => {
  describe('#logstashFeaturePreRoutingFactory', () => {
    let mockServer;
    let mockLicenseCheckResults;

    beforeEach(() => {
      mockServer = {
        plugins: {
          xpack_main: {
            info: {
              feature: () => ({
                getLicenseCheckResults: () => mockLicenseCheckResults
              })
            }
          }
        }
      };
    });

    it('only instantiates one instance per server', () => {
      const firstInstance = licensePreRoutingFactory(mockServer);
      const secondInstance = licensePreRoutingFactory(mockServer);

      expect(firstInstance).to.be(secondInstance);
    });

    describe('isAvailable is false', () => {
      beforeEach(() => {
        mockLicenseCheckResults = {
          isAvailable: false
        };
      });

      it('replies with 403', (done) => {
        const licensePreRouting = licensePreRoutingFactory(mockServer);
        const stubRequest = {};
        licensePreRouting(stubRequest, (response) => {
          expect(response).to.be.an(Error);
          expect(response.isBoom).to.be(true);
        });
      });
    });
  });
});
describe('isAvailable is true', () => {
  beforeEach(() => {
    mockLicenseCheckResults = {
      isAvailable: true
    };
  });

  it('replies with nothing', (done) => {
    const licensePreRouting = licensePreRoutingFactory(mockServer);
    const stubRequest = {};
    licensePreRouting(stubRequest, (response) => {
      expect(response).to.be(undefined);
      done();
    });
  });
});

import React from 'react';

import {
  EuiFlexItem,
  EuiCard,
  EuiButton,
  EuiLink,
  EuiOverlayMask,
  EuiConfirmModal,
  EuiText
} from '@elastic/eui';

export class RevertToBasic extends React.PureComponent {
  cancel = () => {
    this.props.uploadLicenseStatus({});
  };

  acknowledgeModal() {

const {
  needsAcknowledgement,
  messages: [firstLine, ...messages] = [],
  startBasicLicense,
  cancelStartBasicLicense,
  licenseType
} = this.props;
if (!needsAcknowledgement) {
  return null;
}
return (
  <EuiOverlayMask>
    <EuiConfirmModal
      title="Confirm Revert to Basic License"
      onCancel={cancelStartBasicLicense}
      onConfirm={() => startBasicLicense(licenseType, true)}
      cancelButtonText="Cancel"
      confirmButtonText="Confirm"
    >
      <div>
        <EuiText>{firstLine}</EuiText>
        <EuiText>
          <ul>
            {messages.map(message => <li key={message}>{message}</li>)}
          </ul>
        </EuiText>
      </div>
    </EuiConfirmModal>
  </EuiOverlayMask>
);
Platinum features
</EuiLink>.
</span>
);

return (  
<EuiFlexItem>
{this.acknowledgeModal()}
<EuiCard  
title="Revert to Basic license"  
description={description}  
footer={  
<EuiButton data-test-subj="revertToBasicButton" onClick={() => startBasicLicense(licenseType)}>  
Revert to Basic  
</EuiButton>  
}  
/>  
</EuiFlexItem>  
);
}
}
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import {handleActions} from 'redux-actions';

import {addUploadErrorMessage} from './actions/add_error_message';

export const uploadErrorMessage = handleActions({  
[addUploadErrorMessage](state, {payload}) {  
return payload;  
}  
}, "");
{
"xpack.license.post": {
"url_params": {
"acknowledge": "__flag__"  
},  
"methods": [  
"PUT",  
"POST"  
],  
"patterns": [  
"_xpack/license"  
]  
}  
}  


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* /

module.exports = {
  rules: {
    'require-license-header': require('./rules/require_license_header'),
    'remove-outdated-license-header': require('./rules/remove_outdated_license_header'),
  },
}
import expect from 'expect.js';
import { set } from 'lodash';
import { checkLicense } from '../check_license';

describe('check_license', function () {

    let mockLicenseInfo;
    beforeEach(() => mockLicenseInfo = {});

    describe('license information is undefined', () => {
        beforeEach(() => mockLicenseInfo = undefined);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
        });

        it('should set isReadOnly to false', () => {
            expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });

    describe('license information is not available', () => {
        beforeEach(() => mockLicenseInfo.isAvailable = () => false);

        it('should set isAvailable to false', () => {
            expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
        });

        it('should set enableLinks to false', () => {
            expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
        });

        it('should set isReadOnly to false', () => {
            expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });

});
describe('license information is available', () => {
    beforeEach(() => {
        mockLicenseInfo.isAvailable = () => true;
        set(mockLicenseInfo, 'license.getType', () => 'basic');
    });

    describe('& license is trial, standard, gold, platinum', () => {
        beforeEach(() => {
            set(mockLicenseInfo, 'license.isOneOf', () => true);
            mockLicenseInfo.feature = () => ({ isEnabled: () => true }); // Security feature is enabled
        });

        describe('& license is active', () => {
            beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

            it('should set isAvailable to true', () => {
                expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
            });

            it('should set enableLinks to true', () => {
                expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
            });

            it('should set isReadOnly to false', () => {
                expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
            });

            it('should not set a message', () => {
                expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
            });
        });

        describe('& license is expired', () => {
            beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

            it('should set isAvailable to true', () => {
                expect(checkLicense(mockLicenseInfo).isAvailable).to.be(true);
            });

            it('should set enableLinks to true', () => {
                expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
            });

            it('should set isReadOnly to false', () => {
                expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
            });

            it('should not set a message', () => {
                expect(checkLicense(mockLicenseInfo).message).to.be(undefined);
            });
        });
    });

    describe('& license is available', () => {
        beforeEach(() => {
            mockLicenseInfo.isAvailable = () => true;
            set(mockLicenseInfo, 'license.getType', () => 'basic');
        });

        it('should set a message', () => {
            expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
        });
    });
});
expect(checkLicense(mockLicenseInfo).enableLinks).to.be(true);
});

it( 'should set isReadOnly to true', () => {
  expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(true);
});

it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});
});
});

describe('& license is basic', () => {
  beforeEach(() => {
    set(mockLicenseInfo, 'license.isOneOf', () => false);
    mockLicenseInfo.feature = () => ({} isEnabled: () => true)); // Security feature is enabled
  });

  describe('& license is active', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => true));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it ('should set enableLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
    });

    it ('should set isReadOnly to false', () => {
      expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });

  describe('& license is expired', () => {
    beforeEach(() => set(mockLicenseInfo, 'license.isActive', () => false));

    it('should set isAvailable to false', () => {
      expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
    });

    it ('should set enableLinks to false', () => {
      expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
    });

    it ('should set isReadOnly to false', () => {
      expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
    });

    it('should set a message', () => {
      expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
    });
  });
});
it('should set isReadOnly to false', () => {
  expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
});

it('should set a message', () => {
  expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
});

});

describe('& security is disabled', () => {
  beforeEach(() => {
    mockLicenseInfo.feature = () => ({ isEnabled: () => false }); // Security feature is disabled
    set(mockLicenseInfo, 'license.isOneOf', () => true);
    set(mockLicenseInfo, 'license.isActive', () => true);
  });

  it('should set isAvailable to false', () => {
    expect(checkLicense(mockLicenseInfo).isAvailable).to.be(false);
  });

  it('should set enableLinks to false', () => {
    expect(checkLicense(mockLicenseInfo).enableLinks).to.be(false);
  });

  it('should set isReadOnly to false', () => {
    expect(checkLicense(mockLicenseInfo).isReadOnly).to.be(false);
  });

  it('should set a message', () => {
    expect(checkLicense(mockLicenseInfo).message).to.not.be(undefined);
  });
});

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export { RevertToBasic } from './revert_to_basic.container';

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import { handleActions } from 'redux-actions';

import { addLicense } from '../actions/add_license';

export const license = handleActions(
    [addLicense](state, { payload }) {
        return payload;
    }, { })

{ "xpack.license.get_trial_status": {
    "methods": [
        "GET"
    ],
    "patterns": [
        "/_xpack/license/trial_status"
    ],
    "documentation": "https://www.elastic.co/guide/en/x-pack/current/license-management.html"
}

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exports.assert = function assert(truth, message) {
    if (truth) {
        return;
    }

    const error = new Error(message);
    error.failedAssertion = true;
    throw error;
};

exports.normalizeWhitespace = function normalizeWhitespace(string) {
    return string.replace(/\s+/g, ' ');
};

exports.init = function (context, program, initStep) {
    try {
        return initStep();
    } catch (error) {
        if (error.failedAssertion) {
            context.report({
                node: program,
                message: error.message
            });
        } else {
            throw error;
        }
    }
}

1.294 python2-openstacksdk 0.11.4 1.el7ost
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The End
1.300 oci-systemd-hook 0.2.0

1.git05e6923.el7_6

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1.302 traceroute 2.0.22 2.el7

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## golcs - https://github.com/yudai/golcs

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## cli.go - https://github.com/codegangsta/cli

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1.308 Python-Simplegeneric 0.8 7.el7ost

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1.310 libsepol 2.5 10.el7

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Ty Coon, President of Vice

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1.321 libjpeg-turbo 1.2.90 6.el7
1.321.1 Available under license:

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/ *
* jdtrans.c *
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* 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.
*/
/*
 * 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.
 */

/*
 * rdswitch.c
 *
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 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables fileRead quantization tables from text file
 * -scans fileRead 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
 */

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.
 */

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

/*
 * wrtarga.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 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/wrtarga.c

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/*
 * jchuff.c
 *
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 *
 * 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jchuff.c

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

/*
 * jidctint.c
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 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 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 downsampled 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):
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/*
 * jdatasrc-tj.c
 *
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 * 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdatasrc-tj.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jsimd.h
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License: IJG

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/*
 * jdsample.c
 *
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 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (\text{v\_samp\_factor} \times \text{DCT\_scaled\_size} / \text{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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdsample.c

/*
 * 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.
 */
/*
 * 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.
 */

; 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
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;    misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

; ==========================================================================
; 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 -faoutb/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
; -- 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
%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_QWORD    ; sizeof(XMMWORD)
%define XMMWORD_BIT             QWORD_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_GOT1
; NOTE: this macro destroys ecx resister.
call %%geteip
add ecx, byte (%%%ref - $)
jmp short %%adjust
%%%geteip:
mov ecx, POINTER [esp]
ret
%%%adjust:
pus ebp
xor ebp,ebp ; ebp = 0

Open Source Used in Cisco VIM 3.4.6 3660
%ifdir %l.ebx; (%l == 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 ; (%l != 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%l, ecx
%endif ; (%l == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ -----------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%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) wrt ..gotoff

%imacro get_GOT1
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_ -----------------
%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.
; ; ";.balign 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($,%1)/9 \\
        db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
        times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \\
            db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
            times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \\
                db 0x8D,0xAD,0x00,0x00 ; lea ebp,[ebp+0x00000000]
                times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \\
                    db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
                    times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \\
                        db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
                        times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \\
                            db 0x8B,0xED ; mov ebp,ebp
                            times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%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]
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 "jsimdefg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jsimdext.inc
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

/ *
* rdtarga.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/rdtarga.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jcmainct.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 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-
  archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/rdcolmap.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.

A simple input-smoothing capability is provided. This is mainly intended
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Currently, smoothing is only supported for 2h2v sampling factors.

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where SF = (smoothing_factor / 1024).
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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.
* 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 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.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 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.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/wrbmp.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jfdctint.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.
* cjjpeg/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 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
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:

```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 >= 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...
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:

```c
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 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'être 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 jdcoeft.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.

*/
* jccolor.c
*
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* Modifications:
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* 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.
*/

*/
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
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*
* 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archiveliGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archivelq5s9rqN/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/
* jinput.c
*
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*
* 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 jmarker.c, jdhuff.c, and jdphuff.c.
*/
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 *
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 * *
 * This file contains routines to write JPEG datastream markers.
 */

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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jmemmgr.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
 * jversion.h
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2010, 2012-2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jversion.h
No license file was found, but licenses were detected in source scan.

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 * 1. The origin of this software must not be misrepresented; you must not
 * 2. Altered source versions must be plainly marked as such, and must not be
 * 3. This notice may not be removed or altered from any source distribution.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jfmmxint.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jiss2int.asm

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

**USING THE IJG JPEG LIBRARY**

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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. (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

```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 (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:

```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:

```
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:

   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:

   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 (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 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 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)
[libjpeg v7+ API/ABI emulation only]
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;

[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:
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:

\texttt{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{jdcolor.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}. 
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, 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_colorspace(). 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_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 jccparam.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 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).

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 frammishes. 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 jpegFinish_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
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_quantFixed color cube colormap 
enable_external_quantExternally-supplied colormap 
enable_2pass_quantTwo-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
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 "jpegSuppressTables(&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
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 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 downsampled 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 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_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_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

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then 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*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 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:

```c
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

```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 TRACEMSsn() 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
- 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_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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/libjpeg.txt

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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jcdctmgr.c

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.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/rdjpgcom.c

No license file was found, but licenses were detected in source scan.
/*
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*
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*
* - Redistributions of source code must retain the above copyright notice,
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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.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJExample.java
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/
1.2.90/java/org/libjpeg turbo/turbojpeg/TJDecompressor.java
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 */

/*
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 * 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.*
 */

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/release/License.rtf
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* 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 (jdhuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdhuff.h
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jsimd_arm.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jcomapi.c

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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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdatadst.c

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/*
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* 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 jsample.c and jcolor.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:
* 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 jsample.c and jcolor.c.)
* 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdct.h
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 jsimdxext.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jcphuff.c
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdct.inc
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/cdjpeg.c
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.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jmorecfg.h
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# - Neither the name of the libjpeg-turbo Project nor the names of its
#   software without specific prior written permission.

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* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/release/uninstall.in
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* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcqnts2f-
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64.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcsammmx.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdclrss2-64.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcss2flt.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jccolss2.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcsamss2-64.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jsimdcpu.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcqsnts2i.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/dsamss2.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcgrmgmx.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcqsnte.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcgrss2.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcqrtmnmx.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcqrtses.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcqsnte.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcqsnts2.asm
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1.2.90/simd/jccolmmx.asm

* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdmrgss2.asm

* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm

* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdmrgmmx.asm

* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdcrss2.asm

* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jjqnt3dn.asm

* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdmsammx.asm

* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdmsmmx.asm

* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdmsmmx.asm
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/*
*rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
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*
* 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 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 RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosixpand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosixpand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdclrss2-64.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosixpand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosixpand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcqnts2f.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosixpand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosixpand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jiss2red-64.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosixpand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosixpand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jdclmrmmx.asm
/*
 * rdgif.c
 *
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 * This file is part of the Independent JPEG Group's software.
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 *
 * 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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*/

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* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/rdgif.c

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******************************************************************************
**     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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*******************************************************************************
** 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]:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s
({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

`CPATH=/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.)

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

Colors/pace 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
#ifdef 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
#ifdef JCS_ALPHA_EXTENSIONS
```

jctest.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.
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/README-turbo.txt

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) 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jcparam.c

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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jd Huffman 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.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdhuff.c
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdcolor.c

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

/*
 * wrrle.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 stdout stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/wrrle.c

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

/*
 * 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/rdbmp.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 PBMPPLUS 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/wrppm.c
No license file was found, but licenses were detected in source scan.

License: BSD-style
libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdmainct.c
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:
 * 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 output colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdcolext.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdmarker.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 stdio 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-
archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/wrgif.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-
  archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jmemsys.h
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.
  */

Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-
  archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jccoefct.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/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jerror.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/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm

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/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jchuff.h

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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jcapistd.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jpegint.h
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
* cjpe and djpe. It is NOT used by the core JPEG library.
*/
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.
 */

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
 * djpeg [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
 * djpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
*/
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/djeg.c

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

.indentation */
* 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdmaster.c

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

.indentation */
* 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdarith.c

No license file was found, but licenses were detected in source scan.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jsimd_none.c
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/wrjpgcom.c
No license file was found, but licenses were detected in source scan.
* JPEG markers.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/wrjpgcom.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/cjpeg.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jmemnobs.c
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 <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 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 cjpegc or djpegc.
*/
#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 cjpegc/djpegc.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jconfig.txt
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jcmaster.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jerror.h
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.
*/

// Natural Docs is licensed under the GPL.

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*
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* modification, are permitted provided that the following conditions are met:
*
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*   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.
*
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* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) 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.
*/

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/ws_local/PERMITS_SQL/1035195908_1589170506.570/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/transsupp.c

No license file was found, but licenses were detected in source scan.
* 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jidctflt.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 jeparam.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jcapimin.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jidctred.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdpostct.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 cjjpeg/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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/coderules.txt

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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand- archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jsimd.h
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand- archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.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 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
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jaricom.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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
* 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:
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jdatadst-tj.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.
No license file was found, but licenses were detected in source scan.

/*
 * 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):
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-iGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/release/deb-control.tmpl

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

/*
 * jquant1.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 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
* 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGntap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jquant2.c
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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/jpeglib.h
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.)
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.)

JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

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.

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 Un*x 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.

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
=====

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.

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.

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.

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 jsimdefg.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.


[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.

[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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/ChangeLog.txt

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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 libjpeg-turbo.

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.

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 * jdmrgext.c
 *
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 * *
 * This file contains code for merged upsampling/color conversion.
 */

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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.
 */
* 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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; 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

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%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
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%else
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%endif
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; -----------------------------------------------------------------------------------

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* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
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/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander

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* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/tjbench.c
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/java/TJBench.java

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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.

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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 Fröhling 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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 *
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 * Modifications:
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 * 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.
*/

Found in path(s):
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*
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
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*
* 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/ws_local/PERMITS_SQL/1035195908_1589170506.57/0/libjpeg-turbo-1.2.90-6.el7-1.src.rpm-cosi-expand-archive-liGnptap/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-3q5s9rqN/libjpeg-turbo-1.2.90/transupp.h

---

1.322 x-sys master 0e01d88

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1.323 intel-cmt-cat 3.0.1 1.el7

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1.324 glibc 2.17 260.el7_6.6

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center Version 2.1, February 1999

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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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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.)
@end enumerate

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Thus, it is not the intent of this section to claim rights or contest
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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 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.

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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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
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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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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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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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@subheading END OF TERMS AND CONDITIONS

@page
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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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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.

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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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commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Imply and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.
Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigsetmask): Remove.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/socket.h: Move to ...
* sysdeps/unix/bsd/bits/socket.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
The Hurd provides a rough superset of the functionality of 4.4 BSD.

- unix/bsd
+ unix

diff --git a/sysdeps/unix/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd4.4/Makefile
to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd4.4/Versions
to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd4.4/bits/sockaddr.h
to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd4.4/syscalls.list b/sysdeps/unix/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
# File name	Caller	Syscall name	# args	Strong name	Weak names
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait44

diff --git a/sysdeps/unix/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/cmmsg_nxthdr.c
to sysdeps/unix/bsd/cmmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigblock.c
to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigsetmask.c
to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@

 # File nameCallerSyscall name# argsStrong nameWeak names

+chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock-flock2__flockflock
getdents-getdirent4__getdirentriesgetdirentries
getdtablesize0__getdtablesizegetdtablesize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
-sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksigsetmask
-sigstack-sigstack2sigstack
-sigvec-sigvec3__sigvecssigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
-wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
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 */
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(""%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(""%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(""%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(""%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(""%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(""%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(""%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s", %p, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s", "%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalaction", "signalaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalstack", "signalstack", "%s(%p, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend", "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalmask", "signalmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgterm", "setgterm", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket", "socket", "%s(%d, %d, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s\"%s\",%p\"", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s\"%s\",%p\"", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s\"%s\",\"%s\"\"", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wait, "thr_wait", "%s(%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s\"%s\"\", NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)%\", NULL, NULL },
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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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<th>Year</th>
<th>Owner</th>
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Thanks to the many outside volunteers who have worked under Guido's
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Index: debug.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
     if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
         }
     if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
         printf("%-20s",buf1);
         }
         }

Index: ops2.c

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+
case 0xc8:
+
DECODE_PRINTF("EAX\n");
+
M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+
break;
+
case 0xc9:
+
DECODE_PRINTF("ECX\n");
+
M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+
break;
+
case 0xca:
+
DECODE_PRINTF("EDX\n");
+
M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+
break;
+
case 0xcb:

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+ DECODE_PRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODE_PRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECODE_PRINTF("ESI\n");
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+ break;
+ case 0xcf:
+ DECODE_PRINTF("EDI\n");
+ M.x86.R EDI = x86emu_bswap(M.x86.R EDI);
+ break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/ *  0xd0 */ x86emuOp2_illegal_op,
/ *  0xd1 */ x86emuOp2_illegal_op,
diff -u -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -00001.1
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d\n", imm);
    TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
        M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
M.x86.R_Di += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}

DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* dont care whether REPE or REPNE */
-  /* move them until CX is ZERO. */
-  count = M.x86.R_CX;
+  /* move them until (E)CX is ZERO. */
+  count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+  M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2574,6 +2586,8 @@
}
M.x86.R_SI += inc;
M.x86.R_Di += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}

DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* REPE */
-  /* move them until CX is ZERO. */
-  while (M.x86.R_CX != 0) {
+  /* move them until (E)CX is ZERO. */
+  while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    val1 = fetch_data_byte(M.x86.R_SI);
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_Di);
    cmp_byte(val1, val2);
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+      M.x86.R_ECX -= 1;
+    else
+      M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_Di += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
  }
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) & ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
  val1 = fetch_data_long(M.x86.R_SI);
  val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
    val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word((u16)val1, (u16)val2);
  }
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
  M.x86.R_SI += inc;
  M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) & ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) & ACCESS_FLAG(F_ZF) ) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else

M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
+ if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+ /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2795,6 +2826,8 @@
 store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
 }
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
 inc = 1;
+ if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+ /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_SI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
    } else if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
        M.x86.R_SI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                if (M.x86.mode & SYSMODE_32BIT_REP)
                    M.x86.R_ECX -= 1;
                else
                    M.x86.R_CX -= 1;
                M.x86.R_DI += inc;
                if (ACCESS_FLAG(F_ZF) == 0)
                    break;
            }
        }
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE */
        /* move them until CX is ZERO. */
        while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(M.x86.R_AL, val2);
                if (M.x86.intr & INTR_HALTED)
                    break;
            }
        }
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE);
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {

/* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
  val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
  cmp_byte(M.x86.R_AL, val2);
  - M.x86.R_CX -= 1;
  + if (M.x86.mode & SYSMODE_32BIT_REP)
  + M.x86.R_ECX -= 1;
  + else
  + M.x86.R_CX -= 1;
  M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF))
    break; /* zero flag set means equal */
  + if (M.x86.intr & INTR_HALTED)
  + break;

    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
     /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
      val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
      cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word(M.x86.R_AX, (u16)val);
    }
    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    + M.x86.R_ECX -= 1;
    + else
    + M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
      break;
    + if (M.x86.intr & INTR_HALTED)
    + break;

    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
}
/* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    } else {
        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word(M.x86.R_AX, (u16)val);
    }
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
        break;          /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
} else {
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}

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DECODE_PRINTF("RETF\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}@@ -4020,8 +4082,11 @@
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    ip += (s16) M.x86.R_IP;
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
@@ -4041,8 +4106,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c7 Sep 2007 10:01:21 -0000.1
+++ prim_ops.c16 Jan 2008 14:18:15 -0000.1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
  #ifdef __HAS_LONG_LONG__
-  s64 res = (s64)d * (s64)s;
+  s64 res = (s64)(s32)d * (s64)(s32)s;

  *res_lo = (u32)res;
  *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
  #ifdef __HAS_LONG_LONG__
-  u64 res = (u32)M.x86.R_EAX * (u32)s;
+  u64 res = (u64)M.x86.R_EAX * s;

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

```c
single_out(size);
M.x86.R_SI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#include <xf86_ansic.h
@@ -220,7 +215,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inb %04x \n", addr);
-return inb(addr);
+return 0;
}
/**************************************************************************
@@ -235,7 +230,7 @@
{
DB(if (DEBUG_IO_TRACE())
printk("inw %04x \n", addr);
-return inw(addr);
+return 0;
}
/**************************************************************************
@@ -250,7 +245,7 @@

```
{ DB(if (DEBUG_IO_TRACE()))
    printk("inl %#04x \n", addr);
    return inl(addr);
    +return 0;
}

/******************************************************************************/
@@ -264,7 +259,6 @@
{ DB(if (DEBUG_IO_TRACE()))
    printk("outb %#02x -> %#04x \n", val, addr);
    -outb(val, addr);
    return;
}

@@ -279,7 +273,6 @@
{ DB(if (DEBUG_IO_TRACE()))
    printk("outw %#04x -> %#04x \n", val, addr);
    -outw(val, addr);
    return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE()))
    printk("outl %#08x -> %#04x \n", val, addr);
    -outl(val, addr);
    return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
    -M.mem_base = (int) base;
    +M.mem_base = (unsigned long) base;
    M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -0000
```c
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

/*---------------------- Macros and type definitions ----------------------*/
/* checks to be enabled for "runtime" */
#endif

#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)

#define RETURN_TRACE(n,u,v)   
if (DEBUG_TRACECALLREGS())			x86emu_dump_regs();
if (DEBUG_TRACECALL())
		printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);

#define RETURN_TRACE(u,v,w,x,s)   
if (DEBUG_TRACECALLREGS())			x86emu_dump_regs();
if (DEBUG_TRACECALL())
		printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);

#define JMP_TRACE(u,v,w,x,s)
   if (DEBUG_TRACEJMPREGS())
   x86emu_dump_regs();
   if (DEBUG_TRACEJMP())
   printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
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#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE 0x00000100
 #define SYSMODE_PREFIX_DATA 0x00000200
 #define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
#define SYSMODE_INTR_PENDING 0x10000000
#define SYSMODE_EXTRN_INTR 0x20000000
#define SYSMODE_HALTED 0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_EXTRN_INTR | 
 SYSMODE_HALTED      | 
 SYSMODE_32BIT_REP    | 
+ SYSMODE_32BIT_REP    | 
+#define INTR_SYNCH 0x1
+#define INTR_ASYNCH 0x2
@ @ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS | \ 
 SYSMODE_SEGOVR_SS | \ 
 SYSMODE_PREFIX_DATA | \ 
- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR )
+ SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
*/
  u32   mode;
  volatile int   intr; /* mask of pending interrupts */
-int     debug;
+  volatile int     debug;
#endif DEBUG
-int     check;
+  int     check;
  u16     saved_ip;
  u16     saved_cs;
  int     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -00001.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif
@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}                       /* End of "C" linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */

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Version 2.1, February 1999

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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.

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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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-- Wolfgang Denk

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1.327 busybox 1_30_0

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1.331 setroubleshoot-server 3.2.30 3.el7

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dist/I18N-Collate/*
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ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerIO-encoding/*
ext/PerIO-scalar/*
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1.337 python2-greenlet 0.4.12 1.el7ost

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1.340 pycparser 2.19
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1.341 python 2.7.5 83.el7_6
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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
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Blosc - A blocking, shuffling and lossless compression library

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 Network Working Group    H. Krawczyk
 Request for Comments: 2104    IBM
 Category: Informational    M. Bellare
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 HMAC: Keyed-Hashing for Message Authentication

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 Appendix -- Sample Code
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.355 python-pygments 1.4 10.el7

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(lp1
(ccopy_reg
_reconstructor
p2
(cpygments.token
__TokenType
p3
c__builtin__
tuple
p4
(S'Text'

p5

(ttRp6
(dp7
S'subtypes'

Open Source Used In Cisco VIM 3.4.6 4264
Open Source Used In Cisco VIM 3.4.6 4284
S'Oct'
p341
ttrp342
dp343
g8
g9
((ltrp344
g15
g223
sbg328
ag320
ag324
atrp345
sg341
g342
sbg3222
g233
sg91
g2
(g3
(g4
(g91
ttrp346
dp347
g8
g9
((ltrp348
g15
g21
sbg193
g2
(g3
(g4
(g193
ttrp349
dp350
g8
g9
((ltrp351
g15
g21
sbgS'Operator'
V# New ports collection makefile for: python25\u000a
Vlu000a

VPORTVERSION

p386
tp387
atg353
V=
tp388
atg6
V

V2.5.1

p390
tp391
atg6
Vlu000a

tp392
atg100

VCATEGORIES

p393
tp394
atg353
V=
tp395
atg6
V

Vlang

p397

Vpython

p400
tp401
atg6
V

ipv6

p403
tp404
atg6
Open Source Used In Cisco VIM 3.4.6  4296
Open Source Used In Cisco VIM 3.4.6

Interpreted

Object-oriented

Programming

Language

DIST_SUBDIR
Open Source Used In Cisco VIM 3.4.6  4298

Vpython

V/protobuf.static

V\u000a

V=portbld.static

V\u000a

V=$

V/

V/portbld.static

V\u000a

V=PYTHON_WRKSR

VWRKSR

V=VWRKSR

VWRKSR

V\u000a

V$VWRKSR

VPATCH_WRKSR

VPORTBLD

V\u000a

V=PORTBLD

V=PORTBLD

V=PORTBLD

V=PORTBLD

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V=PORTBLED
V

V PYTHON_WRK_SRC

V GNU_CONFIGURE

V CONFIGURE_TARGET
V =

tp507
agt138
V$\{$
p508

tp509
agt100
V
}

VMACHINE_ARCH

pt511
agt138
V
}

agt6

V-portbuild-freebsd

pt513

agt14

V$\{$
p515

agt16

V
}

agt100

VOSREL

pt517

agt18

V
}

agt6

V\u000a

pt520

agt100

VCONFIGURE_SCRIPT

pt521

agt353
V =

pt523

agt6
V

pt524

agt6
V

pt525

V

pt527

Open Source Used In Cisco VIM 3.4.6 4300
V# must be relative

V= "echo freebsd"

V"${CFLAGS}"
open source used in cisco vim 3.4.6 4302

```
tp548
ag6
V

tp549
ag100
VVPATH
p550
tp551
ag353
V=
tp552
ag255
V"${PYTHON_WRKSRCE}" p553
tp554
ag6
V\u000a0a
 tp555
ag100
VINSTALLS_SHLIB
p556
tp557
ag353
V=
tp558
ag6
V

tp559
ag6
V\yes
p560
tp561
ag6
V\u000a0a
 tp562
ag100
VINSTALL\_TARGET
p563
tp564
ag353
V=
tp565
ag6
V

tp566
ag6
V
Valinstall
p567
```
VPYTHON_VERSION
p591
tp592
afg353
V=
tp593
afg6
V
tp594
afg6
Vpython2.5
p595
tp596
afg6
Vuu000a
tp597
afg100
VPYTHON_NO_DEPENDS
p598
tp599
afg353
V=
tp600
afg6
V
tp601
afg6
Vyes
p602
tp603
afg6
Vuu000a\uu000a
p604
tp605
afg100
VSHARED_WRKSRCH
p606
tp607
afg353
V=
tp608
afg6
V
tp609
VPLIST_TEMPLATE?
p631
tp632
a(g353
V=
tp633
a(g138
V$}
p634
tp635
a(g100
VPKGDIR
p636
tp637
a(g138
V]
tp638
a(g6
V/pkg-plist
p639
tp640
a(g6
V\u0000a
tp641
a(g100
VPLIST_SUB
p642
tp643
a(g353
V=
tp644
a(g6
V
tp645
a(g100
VPYVER
p646
tp647
a(g353
V=
tp648
a(g138
V$}
p649
tp650
a(g100
VPYTHON_VERSION
p651
p672
tp673
a{g138
V}
tp674
a{g6
V\u000a
tp675
a{g100
VDEMODIR
p676
tp677
a{g353
V=
tp678
a{g6
V
tp679
a{g138
V$

p680
tp681
a{g100
VPREFIX
p682
tp683
a{g138
V}
tp684
a{g6
V/share/examples/

p685
tp686
a{g138
V$

p687
tp688
a{g100
VPYTHON_VERSION
p689
tp690
a{g138
V}
tp691
a{g6
V\u000a

p692
a{g100
VTOOLSDIR
p693
tp694
a(g353
V=
tp695
a(g6
V
 tp696
a(g138
V$
 p697
tp698
a(g100
VPREFIX
p699
tp700
a(g138
V]
 tp701
a(g6
V/share/
p702
tp703
a(g138
V$
 p704
tp705
a(g100
VPYTHON_VERSION
p706
tp707
a(g138
V]
 tp708
a(g6
V\u000a\u000a
 p709
tp710
a(g100
VBIN_SCRIPTS
p711
tp712
a(g353
V=
 tp713
a(g6
V
Open Source Used In Cisco VIM 3.4.6 4310
V
p735
tp736
atg6
Vpython-shared-config
p737
tp738
atg6
V\u0000a
tp739
atg100
VBINLINKS_SUB
p740
tp741
atg353
V=
tp742
atg6
V
atg6
V-e
p744
tp745
atg6
V
atg6
V's,smtpd,smtpd${PYTHON_VER},'
p747
tp748
atg6
V
atg6
V\u005c\u000a\u0000a
p750
tp751
atg6
V
p752
tp753
atg6
V-e
p754
tp755
atg6
V
V's.(idle|pydoc|python-shared|python),\u005c1${PYTHON_VER},'

V\u000a

V"

V"Enable thread support"

V"Enable thread support"
VHUGE_STACK_SIZE

V"Use a larger thread stack"

VUCS4

V"Use UCS4 for unicode support"
V
"Use python’s internal malloc"

V"Enable IPv6 support"
V

"Enable floating point exception handling"

V

V

V

V

V

V

V

V

V

V

V

V
V if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

VMLINKS

VPYTHON_VERSION

VPLIST_SUB+
a(g353
V=
 tp864
a(g6
 V
 tp865
 a(g100
 VIF_DEFAULT
 p866
 tp867
 a(g353
 V=
 tp868
 a(g255
 V""
 p869
 tp870
 a(g6
 V""
 p871
 a(g27
 V.else\u000a
 p872
 tp873
 a(g6
 V
 tp874
 a(g6
 VPLIST_SUB+
 p875
 tp876
 a(g353
 V=
 tp877
 a(g6
 V
 tp878
 a(g100
 VIF_DEFAULT
 p879
 tp880
 a(g353
 V=
 tp881
 a(g255
 V"@comment "
 p882
 tp883
V# workaround for a bug in base curses.h

VCFLAGS+=

-D__wchar_t

VWchar_t

V
VCONFIGURE_ARGS+

V=--with-threads

VCFLAGS+

V$\{\n
VPTHREAD_CFLAGS

V.if defined(WITHOUT_HUGE_STACK_SIZE)\n
V
V
a(g6
VCFLAGS+
p926
tp927
a(g353
V=
tp928
a(g6
V
p929
tp930
a(g6
V-DTHREAD_STACK_SIZE
p931
tp932
a(g353
V=
tp933
a(g6
V0x20000
p934
tp935
a(g6
V\u000a
p937
tp938
a(g6
V
tp939
a(g6
VCFLAGS+
p940
tp941
a(g353
V=
tp942
a(g6
V
p943
tp944
a(g6
V-DTHREAD_STACK_SIZE
p945
tp946
a(g353
V=
tp947
a(g6
V0x100000
p948
tp949
a(g6
V\u000a
tp950
a(g27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p951
tp952
a(g6
V
tp953
a(g6
VCONFIGURE_ENV+

p954
tp955
a(g353
V=
tp956
a(g6
V
p957
tp958
a(g100
VLDFLAGS
p959
tp960
a(g353
V=
tp961
a(g255
V"${PTHREAD/libs} ${LDFLAGS}"

p962
tp963
a(g6
\\\u000a
tp964
a(g27
V.else\u000a
p965
tp966
a(g6
V
p967
a(g6
VCONFIGURE_ARGS+
p968
tp969
a(g353
V=
tp970
a(g6
V
tp971
a(g6
V--without-threads
p972
tp973
a(g6
V\u000a
tp974
a(g27
V.if defined(LDFLAGS)\u000a
p975
tp976
a(g6
V
tp977
a(g6
VCONFIGURE_ENV+
p978
tp979
a(g353
V=
tp980
a(g6
V
p981
tp982
a(g100
VLDFLAGS
p983
tp984
a(g353
V=
tp985
a(g255
V"${LDFLAGS}"
Vsmoutha
hp988
ag27
V.endif # defined(LDFLAGS)
pp989
ag990
ag6
V
ag991
ag27
V.endif # !defined(WITHOUT_THREADS)
pp992
ag993
ag6
Vsmoutha
ag994
ag27
V.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)
pp995
ag996
ag6
V
ag997
ag6
VCONFIGURE_ARGS+
pp998
ag999
ag353
V=
ag1000
ag6
V
ag1001
ag6
V--enable-unicode
pp1002
ag1003
ag353
V=
ag1004
ag6
Vuucs4
ag1005
ag1006
ag6
Vsmoutha
ag1007
V.endif

if defined(WITHOUT_PYmalloc)

VCONFIGURE_ARGS+

V--without-pymalloc

V.endif

if ${ARCH} == i386

VPLIST_SUB+
p1028
tp1029
a(g353
V=
tp1030
a(g6
V
tp1031
a(g100
VX86_ONLY
p1032
tp1033
a(g353
V=
tp1034
a(g255
V"

p1035
tp1036
a(g6
V
aw0000a

p1037
a(g27
V.else"aw000a

p1038
tp1039
a(g6
V

p1040
a(g6
VPLIST_SUB+
p1041
tp1042
a(g353
V=
tp1043
a(g6
V

p1044
a(g100
VX86_ONLY
p1045
tp1046
a(g353
V=
tp1047
a(g255
V"@comment "

Open Source Used In Cisco VIM 3.4.6 4325
p1048
.tp1049
.a(g6
V\u000a
.tp1050
.a(g27
V.endif\u000a
p1051
.tp1052
.a(g6
V
.tp1053
.a(g27
V.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\u000a
p1054
.tp1055
.a(g6
V
.tp1056
.a(g6
VPLIST_SUB+
.p1057
.tp1058
.a(g353
V=
.tp1059
.a(g6
V
.p1060
.tp1061
.a(g100
V32BIT_ONLY
.p1062
.tp1063
.a(g353
V=
.tp1064
.a(g255
V"@comment "
.p1065
.tp1066
.a(g6
V\u000a
.tp1067
.a(g27
V.else\u000a
p1068
.tp1069
a(g6
V
tp1070
a(g6
VPLIST_SUB+
p1071
tp1072
a(g353
V=
tp1073
a(g6
V
p1074
tp1075
a(g100
V32BIT_ONLY
p1076
tp1077
a(g353
V=
tp1078
a(g255
V=""
p1079
tp1080
a(g6
V\u0000a
p1081
a(g27
V.endif\u0000a
p1082
tp1083
a(g6
V
tp1084
a(g27
V.if ${ARCH} == sparc64\u0000a
p1085
tp1086
a(g6
V
tp1087
a(g6
VCFLAGS+
p1088
tp1089
a(g353
V=
V-DPYTHON_DEFAULT_RECURSION_LIMIT

V

VPLIST_SUB+

NO_NIS

V

VNO_NIS
V=
tpl1111
at(g255
V"@comment"
pl1112
tpl1113
at(g6
V\u000a
pl1114
at(g27
V.else\u000a
pl1115
tpl1116
at(g6
V
pl1117
at(g6
VPLIST_SUB+
pl1118
tpl1119
at(g353
V=
pl1120
at(g6
V
pl1121
at(g100
VNO_NIS
pl1122
tpl1123
at(g353
V=
pl1124
at(g255
V"
pl1125
tpl1126
at(g6
V\u000a
pl1127
at(g27
V.endif\u000a
pl1128
tpl1129
at(g6
V\u000a
pl1130
at(g27
V.if !defined(WITHOUT_IPV6)

V

VCONFIGURE_ARGS+

V--enable-ipv6

V

VCONFIGURE_ARGS+

V--disable-ipv6
V.endif
p1151
tp1152
a(g6
V\u0000a
tp1153
a(g27
V.if defined(WITH_FPECTL)\u0000a
p1154
tp1155
a(g6
V
tp1156
a(g6
VCONFIGURE_ARGS+

p1157


tp1158
a(g353
V=
tp1159
a(g6
V


tp1160
a(g6
V--with-fpectl
p1161


tp1162
a(g6
V\u0000a
tp1163
a(g27
V.endif\u0000a
p1164
tp1165
a(g6
V\u0000a
tp1166
a(g27
V.if $[OSVERSION] >= 700000\u0000a
p1167


tp1168
a(g6
V


tp1169
a(g100
VPLATFORMS

p1170
tp1171
elif ${OSVERSION} >= 600000

VPLATFORMS

V=
tp1192
a(g6
V
TP1193
a(g6
Vplat-freebsd7
tp1194
TP1195
a(g6
V\u000a
TP1196
a(g27
V.else\u000a
TP1197
TP1198
a(g6
V
TP1199
a(g100
VPLATFORMS
P1200
TP1201
A(G353
V=
TP1202
A(G6
Vplat-freebsd4
P1203
TP1204
A(G6
V
TP1205
A(G6
Vplat-freebsd6
P1206
TP1207
A(G6
V
TP1208
A(G6
Vplat-freebsd7
P1209
TP1210
A(G6
V\u000a
TP1211
A(G27
V.endif
V.
VSED
p1277
atg138
V]

tp1279
atg6
V

tp1280
atg6
V-e

tp1281

tp1282
atg6
V

tp1283
atg281
V'ls,^.*$,$!${PREFIX}/bin/${PYTHON_VERSION},'
p1284

tp1285
atg6
V

tp1286
atg262
V\u0005c\u000a
p1287

tp1288
atg6
V

tp1289

tp1290
atg138
V$}
p1291

tp1292
atg100
VPATCH_WRKSRCP1293

tp1294
atg138
V]

tp1295
atg6
V/Tools/scripts/idlep1296

tp1297
atg6
V
Open Source Used in Cisco VIM 3.4.6 4338
V'1s.^"$$.#!${PREFIX}/bin/${PYTHON_VERSION},'p1319
tp1320
atg6
V
tp1321
atg262
V\u005c\u000a
p1322
tp1323
atg6
V
p1324
tp1325
atg138
V${

p1326
tp1327
atg100
VPATCH_WRKSRC

p1328
tp1329
atg138
V}
tp1330
atg6
V/Lib/smtpd.py

p1331
tp1332
atg6
V>
tp1333
atg6
V>
tp1334
atg6
V

p1335
atg138
V${
p1336
tp1337
atg100
VWRKDIR

p1338
tp1339
atg138
V
tp1340
a(g6
V/smtpd2.5.py
p1341
tp1342
a(g6
V\u000a
p1343
tp1344
a(g138
V${

p1345
tp1346
a(g100
VREINPLACE_CMD
p1347
tp1348
a(g138
V}

p1349
a(g6
V

p1350
a(g6
V-e

p1351
tp1352
a(g6
V

p1353
a(g262
V\u000a

p1354
tp1355
a(g6
V

p1356
tp1357
a(g281
V's,/usr/doc/python-docs-,${PREFIX}/share/doc/python,g'

p1358
tp1359
a(g6
V

p1360
a(g262
V\u000a

p1361
Open Source Used In Cisco VIM 3.4.6 4243
p1450
p1451
a(g138
V$
\backslash r
p1452
\\n\p1453
a(g100
VPATCH_WRKSRCP1454
p1455
\a\n\p1456
a(g6
V/Makefile.pre.in
\n\p1457
\\n\p1458
a(g6
V\u000a\u000a
\n\p1459
\\n\p1460
a(g138
V$
\backslash r
p1461
\\n\p1462
a(g100
VSED
\n\p1463
\\n\p1464
a(g138
V$
\backslash r
p1465
\\n\p1466
a(g6
V
\\n\p1467
a(g6
V-e
\\n\p1468
a(g6
V
\\n\p1469
a(g281
V's|^#!.*|#!{PREFIX}/bin/${PYTHON_VERSION}|'
\\n\p1470
\\n\p1471
a(g6
V
Open Source Used In Cisco VIM 3.4.6 4346
p1514
tp1515
ag6
V
p1516
tp1517
ag138
V${}\}
p1518
tp1519
ag100
VPATCH_WRKDIR
p1520
tp1521
ag138
V$\}
tp1522
ag6
V/Misc/python-config.in
p1523
tp1524
ag6
V
p1525
ag6
V$\>
p1526
ag6
V
p1527
ag138
V${}\}
p1528
tp1529
ag100
VWRKDIR
p1530
tp1531
ag138
V$\}
p1532
ag6
V/
p1533
ag138
V${}\}
p1534
tp1535
a(g100
VPYTHON_VERSION
p1536
tp1537
a(g212
V:
 tp1538
a(g100
VS
 tp1539
a(g212
V/thon/thon-shared/
p1540
tp1541
a(g138
V)
 tp1542
a(g6
V-config
p1543
tp1544
a(g6
V\u000a\u000a
p1545
tp1546
a(g27
V.if defined(WITH_FPECTL) && ${ARCH} == i386\u000a
p1547
tp1548
a(g6
V
 tp1549
a(g138
VS{
p1550
tp1551
a(g100
VMKDIR
p1552
tp1553
a(g138
V)
 tp1554
a(g6
V
 tp1555
a(g138
VS{

Open Source Used In Cisco VIM 3.4.6 4349
Open Source Used In Cisco VIM 3.4.6 4350
Open Source Used in Cisco VIM 3.4.6 4351

```plaintext
tpl578
a(g100
VWRKSC
ptpl579
tpl580
a(g138
V}
tptpl581
a(g6
V/Modules/Setup.dist
ptpl582
 tpl583
a(g6
V\u000a
ptpl584
a(g27
V.endif\u000a
ptpl585
 tpl586
a(g6
V\u000a
ptpl587
a(g6
V.post-configure:
ptpl588
 tpl589
a(g6
V\u000a
ptpl590
 tpl591
a(g138
VS{
ptpl592
 tpl593
a(g100
VTAR
ptpl594
 tpl595
a(g138
V}
tptpl596
a(g6
V
ptpl597
a(g6
V-C
ptpl598
 tpl599
```

---

Open Source Used in Cisco VIM 3.4.6 4351
V's, BDLIBRARY=\u005c1-L. -lpython$$(VERSION),'
p1682
tp1683
a(g6
V
tp1684
a(g262
\u005c1-L.

V's,CFLAGSFORSHARED=\u005c1$(CCSHARED),'
p1685
tp1686
a(g6
V
tp1687
tp1688
a(g6
V-e
ntp1689
tp1690
a(g6
V
tp1691
tp1692
a(g281
V's,(Makefile Modules/config.c:.*Makefile.pre,\u005c1,'
Open Source Used In Cisco VIM 3.4.6 4358
Vpre-build:

V

V

V

V

V

V

V

V

V

V
Open Source Used In Cisco VIM 3.4.6 4360

VMAKEN_ENV
VMAKEN
V

VPYTHON_VERSION
V.pre-su-install:
V.for platform in ${PLATFORMS}
VMKDIR
VPYTHONPREFIX_LIBDIR
for file in IN.py regen\u000a

V_INSTALLED_DATA

VWRKSRC

V/Lib/
if openssl 0.9.8 is detected, _sha{256,512} module won't be installed

if openssl 0.9.8 is detected, _sha{256,512} module won't be installed
Vpost-install:

V

VINSTALL_SCRIPT

V

VWRKDIR

V
a[g138
V]

V/bin

V\u000a\u000a

V@# shared version of executable and library\u000a

VINSTALL_PROGRAM

VSHARED_WRKSRCE
VS{
p2143
tp2144
at(g100
VPYTHON_VERSION
p2145
tp2146
at(g138
V}
tp2147
at(g6
V.so.1
p2148
tp2149
at(g6
V
tp2150
at(g262
V\005c\000a
p2151
tp2152
at(g6
V
p2153
tp2154
at(g138
VS{
p2155
tp2156
at(g100
VPREFIX
p2157
tp2158
at(g138
V}
tp2159
at(g6
V/lib
p2160
tp2161
at(g6
V\000a
p2162
tp2163
at(g84
Vcd
p2164
tp2165
p2252
tp2253
ag100
VSHARED_WRKSRCP2254
tp2255
ag138
V}
tp2256
ag6
V/
tp2257
ag138
VS{
p2258
tp2259
ag100
VPYTHON_VERSION
p2260
tp2261
ag212
V:
tp2262
ag100
VS
p2263
ag212
V/thon/thon-shared/
p2264
tp2265
ag138
V{
tp2266
ag6
V
p2267
ag262
V\u005c\u000a\u000a
p2268
tp2269
ag6
V
p2270
tp2271
ag138
VS{
p2272
tp2273
VPREFIX
p2274
tp2275
a(g138
V]
tp2276
a(g6
V/bin
p2277
tp2278
a(g6
V\u000a\u000a
p2279
tp2280
a(g24
V @# additional files installing by ports\u000a
p2281
tp2282
a(g6
V
tp2283
a(g138
V${
p2284
tp2285
a(g100
VINSTALL-_SCRIPT
p2286
tp2287
a(g138
V]
tp2288
a(g6
V
tp2289
a(g138
V${
p2290
tp2291
a(g100
VWRKDIR
p2292
tp2293
a(g138
V]
tp2294
a(g6
if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

V

typ

for

V

V
V=
tp2403
atg274
V=
tp2404
atg138
V$

V

p2405
tp2406
atg100
VECHO_CMD
p2407
tp2408
atg138
V}

V

p2409
atg6
V

p2410
atg100
V$

p2411
tp2412
atg6
Vf

tp2413
atg6
V

tp2414
atg6
V}

V}

V

tp2415
atg6
V

p2416
atg138
V$

p2417
tp2418
atg100
VSED
p2419
tp2419
atg138
V}

V

p2421
atg6
V
VPREFIX
p2443
tp2444
at(g138
V}
tp2445
at(g6
V/bin
p2446
tp2447
at(g6
V
tp2448
at(g353
V&&
p2449
tp2450
at(g6
V
tp2451
at(g138
V$\{
p2452
tp2453
at(g100
VLN
p2454
tp2455
at(g138
V}
tp2456
at(g6
V
tp2457
at(g6
V-f
p2458
tp2459
at(g6
V
tp2460
at(g100
V$$
p2461
tp2462
at(g6
VTARGET
p2463
OPEN SOURCE USED IN CISCO VIM 3.4.6

V
p2525
tp2526
at(g353
V

V
p2527
at(g84
Vcd
p2528
tp2529
at(g6
V

V
p2530
at(g138
VS{
p2531

V
p2532
at(g100
VTOOLSDIR

V
p2533
tp2534
at(g138
V}
tp2535
at(g6
V;
tp2536
at(g6
V

V
p2537
at(g138
VS{
p2538

V
p2539
at(g100
VTAR

p2540
tp2541
at(g138
V}
tp2542
at(g6
V

V
p2543
at(g6
V-xf
p2544

V
p2545


Open Source Used in Cisco VIM 3.4.6 4396
1.356 python2-cachetools 2.0.1 3.el7ost

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1.357 sdparm 1.08 3.el7

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

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)
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1.369 python2-oslo-i18n 3.19.0 2.el7ost

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   contributing
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Policy History
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* `Discussion from Havana Summit <https://etherpad.openstack.org/p/havana-oslo-i18n-strategy>`__
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1.370 libseccomp 2.3.1 3.el7

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1.372 python-typing 3.6.4 1
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1.373 cffi 1.11.5

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1.374 dracut 033 554.el7

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1.376 cool-io 1.5.3

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1.378 debianutils 4.8.1.1
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1.379 python-mako 0.8.1 2.el7

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035238027_1589178708.85/0/python-XStatic-1.0.1-8.el7ost-1.src.rpm-cosi-expand-archive-DHt3pW1s/XStatic-1.0.1.tar.gz-cosi-expand-archive-5QQG8E5b/XStatic-1.0.1/setup.py
* /opt/ws_local/PERMITS_SQL/1035238027_1589178708.85/0/python-XStatic-1.0.1-8.el7ost-1.src.rpm-cosi-expand-archive-DHt3pW1s/XStatic-1.0.1.tar.gz-cosi-expand-archive-5QQG8E5b/XStatic-1.0.1/xstatic/__init__.py
* /opt/ws_local/PERMITS_SQL/1035238027_1589178708.85/0/python-XStatic-1.0.1-8.el7ost-1.src.rpm-cosi-expand-archive-DHt3pW1s/XStatic-1.0.1.tar.gz-cosi-expand-archive-5QQG8E5b/XStatic-1.0.1/xstatic/pkg/__init__.py
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* /opt/ws_local/PERMITS_SQL/1035238027_1589178708.85/0/python-XStatic-1.0.1-8.el7ost-1.src.rpm-cosi-
The goal of XStatic family of packages is to provide static file packages with minimal overhead - without selling you some dependencies you don't want.

XStatic has some minimal support code for working with the XStatic-* packages.

Docs: http://readthedocs.org/docs/xstatic/en/latest/

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XStatic
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1.383 Keepalived 1.3.5 8.el7_6.5

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Jan Holmberg, <jan@artech.net>:
o Memory framework
o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
o MISC checker redesign
o Scheduler framework extension to support child process handling.
o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
o Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
o Fixed shadowed declaration reported by -Wshadow.
o Redesigned signal handling.

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

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

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1.385 idna 2.6

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1.390 procps 3.3.10 23.el7_6.2

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**1.392 certifi 2018.4.16**

**1.392.1 Available under license:**

This package contains a modified version of ca-bundle.crt:

`ca-bundle.crt -- Bundle of CA Root Certificates`

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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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.

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

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1.402 python2-oslo-db 4.33.4 1.el7ost

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### 1.403 pyasn1-modules 0.2.4

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### 1.404 python-tinyrpc 0.5

4.20170523git1f38ac.el7ost
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1.405 mime-types 3.2.2

1.406 python2-aodhclient 1.0.0 1.el7ost
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1.409 radvd 2.17 3.el7

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1.410 perl 5.24.1.orig
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```perl
# perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;

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

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

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

  $year;
}

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

  $year;
}

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

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

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
1.411 libpcap 1.5.3 11.el7

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1.412 perl-pod-simple 3.28 4.el7

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1.413 python2-futures 3.1.1 2.1.el7ost

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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

* georgemarshall <http://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support
* Brandon Rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* Studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

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

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

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

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

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

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

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

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

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

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

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

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields
* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

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

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

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

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter
* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

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

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

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

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

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

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

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

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

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

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

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

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

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.
* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

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

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

1.416 audit 2.6.7-2.debian

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1.418 python2-cinderclient 3.5.0 2.el7ost

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

fields:
  site: string
  author: root

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Data model artifacts for Prometheus.

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lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTTransport.cs
lib/csharp/src/Transport/TTTransportException.cs
lib/csharp/src/Transport/TTTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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L. Peter Deutsch
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*/

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As a part of every code review that is submitted to the python-barbicanclient project there are a number of gating jobs which aid in the prevention of regression issues within python-barbicanclient. As a result, a python-barbicanclient developer should be familiar with running python-barbicanclient tests locally.

For your convenience we provide the ability to run all tests through the ``tox`` utility. If you are unfamiliar with tox please see refer to the `tox documentation`_ for assistance.

.. _`tox documentation`: https://tox.readthedocs.org/en/latest/

Unit Tests
----------

Currently, we provide tox environments for Python 2.7. By default all available test environments within the tox configuration will execute when calling ``tox``. If you want to run them independently, you can do so with the following command:

.. code-block:: bash

    # Executes tests on Python 2.7
    tox -e py27

.. note::

    If you do not have the appropriate Python versions available, consider setting up PyEnv to install multiple versions of Python. See the documentation `setting up a Barbican development environment <https://github.com/openstack/barbican/blob/master/doc/source/contributor/dev.rst>`_.

Individual unit tests can also be run, using the following commands:

```bash
# runs a single test with the function named
# test_should_entity_str
tox -e py27 -- test_should_entity_str

# runs only tests in the WhenTestingSecrets class and
# the WhenTestingOrderManager class
tox -e py27 -- 'WhenTestingSecrets|WhenTestingOrderManager'
```

The function name or class specified must be one located in the `barbicanclient/tests` directory.

Groups of tests can also be run with a regex match after the `--`. For more information on what can be done with `--testr`, please see: http://testrepository.readthedocs.org/en/latest/MANUAL.html

You can also setup breakpoints in the unit tests. This can be done by adding `import pdb; pdb.set_trace()` to the line of the unit test you want to examine, then running the following command:

```bash
# Executes tests on Python 2.7
tox -e debug
```

For a list of pdb commands, please see: https://docs.python.org/2/library/pdb.html

Functional Tests

Unlike running unit tests, the functional tests require Barbican and Keystone services to be running in order to execute. For more information on `setting up a Barbican development environment` and using `Keystone with Barbican` see our accompanying project documentation.

A configuration file for functional tests must be edited before the tests can be run. In the top-level directory of the python-barbicanclient, edit
```
/etc/functional_tests.conf`` to the values you setup in Keystone.

.. code-block:: bash

    [DEFAULT]
    # Leaving this as a placeholder

    [keymanager]
    # Replace values that represent barbican server and user information
    url=http://localhost:9311
    username=barbican
    password=secretservice
    project_name=service
    project_id=service
    #max_payload_size=10000
    project_domain_name=Default

    [identity]
    # Replace these with values that represent your identity configuration
    uri=http://localhost:5000/v2.0
    uri_v3=http://localhost:5000/v3
    auth_version=v3

    username=admin
    tenant_name=admin
    password=password
    domain_name=Default

    admin_username=admin
    admin_tenant_name=admin
    admin_password=password
    admin_domain_name=Default

    [identity-feature-enabled]
    # Leaving this as a placeholder

Once you have the appropriate services running and configured you can execute the functional tests through tox.

.. code-block:: bash

    # Execute Barbican Functional Tests
tox -e functional

By default, the functional tox job will use nosetests to execute the functional
tests. This is primarily due to nose being a very well known and common workflow among developers.

.. note::

In order to run individual functional test functions, you must use the following commands:

.. code-block:: bash

    # runs only tests in the test_secrets.py file
    tox -e functional -- client/v1/functional/test_secrets.py

    # runs only tests in the SecretsTestCase class
    tox -e functional -- client/v1/functional/test_secrets.py:
    SecretsTestCase

    # runs a single test with the function named
    # test_secret_create_defaults_check_content_types
    tox -e functional -- client/v1/functional/test_secrets.py:
    SecretsTestCase.test_secret_create_defaults_check_content_types

The path specified must be one located in the `functionaltests` directory.

Remote Debugging

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

In order to be able to hit break-points on API calls, you must use remote debugging. This can be done by adding ``import rpdb; rpdb.set_trace()`` to the line of the API call you wish to test. For example, adding the breakpoint in ``def create`` in ``barbicanclient.secrets.py`` will allow you to hit the breakpoint whenever the ``create`` function is called.

.. note::

After performing the ``POST`` the application will freeze. In order to use ``rpdb``, you must open up another terminal and run the following:

.. code-block:: bash

    # enter rpdb using telnet
    telnet localhost 4444

Once in rpdb, you can use the same commands as pdb, as seen here: https://docs.python.org/2/library/pdb.html

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1.443 python-daiquiri 1.2.1 1.el7ost

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- Joakim Sernbrant (serbaut)
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1.446 e2fsprogs 1.42.9 13.el7

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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Theodore Ts'o
23-June-2007

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That's all there is to it!
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 Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

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

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
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otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/
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1.447 prometheus-client 0.8.0

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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
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 (see http://www.digicool.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. Digital Creations 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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1.453 python-xstatic-roboto-fontface 0.5.0.0

1.el7ost

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1.454 unzip 6.0 19.el7

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*
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*
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1.455 python2-osprofiler 1.15.2 1.el7ost

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1.462 atlas 3.10.1 12.el7

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1.466 calico-kube-controllers 3.7.5

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

HISTORY -

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

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

Some other contributors:

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

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

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintaußmann@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 (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

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

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@end enumerate

@end iftex
@end ifinfo

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

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@end smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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Version 3.1, 31 March 2009

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@end example

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1.471 python-xstatic-angular 1.5.8.0 1.el7ost

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/**
 * @license AngularJS v1.5.8
 * (c) 2010-2016 Google, Inc. http://angularjs.org
 * License: MIT
 */
/**
 * @ngdoc service
 * @name $sce
 * @kind function
 *
 * @description
 *
 * `$sce` is a service that provides Strict Contextual Escaping services to AngularJS.
 *
 * # Strict Contextual Escaping
 *
 * Strict Contextual Escaping (SCE) is a mode in which AngularJS requires bindings in certain contexts to result in a value that is marked as safe to use for that context. One example of such a context is binding arbitrary html controlled by the user via `ng-bind-html`. We refer to these contexts as privileged or SCE contexts.
 *
 * As of version 1.2, Angular ships with SCE enabled by default.
 *
 * Note: When enabled (the default), IE<11 in quirks mode is not supported. In this mode, IE<11 allow one to execute arbitrary javascript by the use of the expression() syntax. Refer <http://blogs.msdn.com/b/ie/archive/2008/10/16/ending-expressions.aspx> to learn more about them.
 *
 * You can ensure your document is in standards mode and not quirks mode by adding `<!doctype html>` to the top of your HTML document.
 *
 * SCE assists in writing code in a way that (a) is secure by default and (b) makes auditing for security vulnerabilities such as XSS, clickjacking, etc. a lot easier.
 *
Here's an example of a binding in a privileged context:

```
<input ng-model="userHtml" aria-label="User input">
<div ng-bind-html="userHtml"></div>
```

Notice that `ng-bind-html` is bound to `userHtml` controlled by the user. With SCE disabled, this application allows the user to render arbitrary HTML into the DIV.

In a more realistic example, one may be rendering user comments, blog articles, etc. via bindings. (HTML is just one example of a context where rendering user controlled input creates security vulnerabilities.)

For the case of HTML, you might use a library, either on the client side, or on the server side, to sanitize unsafe HTML before binding to the value and rendering it in the document.

How would you ensure that every place that used these types of bindings was bound to a value that was sanitized by your library (or returned as safe for rendering by your server?) How can you ensure that you didn't accidentally delete the line that sanitized the value, or renamed some properties/fields and forgot to update the binding to the sanitized value?

To be secure by default, you want to ensure that any such bindings are disallowed unless you can determine that something explicitly says it's safe to use a value for binding in that context. You can then audit your code (a simple grep would do) to ensure that this is only done for those values that you can easily tell are safe - because they were received from your server, sanitized by your library, etc. You can organize your codebase to help with this - perhaps allowing only the files in a specific directory to do this. Ensuring that the internal API exposed by that code doesn't markup arbitrary values as safe then becomes a more manageable task.

In the case of AngularJS' SCE service, one uses `ng.$sce#trustAs` (and shorthand methods such as `ng.$sce#trustAsHtml`, etc.) to obtain values that will be accepted by SCE / privileged contexts.

## How does it work?

In privileged contexts, directives and code will bind to the result of `ng.$sce#getTrusted` rather than to the value directly. Directives use `ng.$sce#parseAs` rather than `$parse` to watch attribute bindings, which performs the `ng.$sce#getTrusted` behind the scenes on non-constant literals.

As an example, `[angular.directive:ngBindHtml ngBindHtml]` uses `ng.$sce#parseAsHtml(binding expression)`. Here's the actual code (slightly simplified):

```
var ngBindHtmlDirective = ['$sce', function($sce) {
  return function(scope, element, attr) {
```
```javascript
    * scope.$watch($sce.parseAsHtml(attr.ngBindHtml), function(value) {
    *     element.html(value || '');
    *   });
    * ]);;
    * ```

## Impact on loading templates

This applies both to the [@link ng.directive:ngInclude `ng-include`] directive as well as `templateUrl`'s specified by [@link guide/directive directives].

By default, Angular only loads templates from the same domain and protocol as the application document. This is done by calling [@link ng.$sce#getTrustedResourceUrl `$sce.getTrustedResourceUrl`] on the template URL. To load templates from other domains and/or protocols, you may either [@link ng.$sceDelegateProvider#resourceUrlWhitelist whitelist them] or [@link ng.$sce#trustAsResourceUrl wrap it] into a trusted value.

* *Please note*:
* The browser's [Same Origin Policy](https://code.google.com/p/browsersec/wiki/Part2#Same-origin_policy_for_XMLHttpRequest) and [Cross-Origin Resource Sharing (CORS)](http://www.w3.org/TR/cors/) policy apply in addition to this and may further restrict whether the template is successfully loaded. This means that without the right CORS policy, loading templates from a different domain won't work on all browsers. Also, loading templates from `file://` URL does not work on some browsers.

## This feels like too much overhead

It's important to remember that SCE only applies to interpolation expressions.

If your expressions are constant literals, they're automatically trusted and you don't need to call `$sce.trustAs` on them (remember to include the `ngSanitize` module) (e.g. `<div ng-bind-html="'<b>implicitly trusted</b>'"></div>`) just works.

Additionally, `a[href]` and `img[src]` automatically sanitize their URLs and do not pass them through [@link ng.$sce#getTrusted `$sce.getTrusted`]. SCE doesn't play a role here.

The included [@link ng.$sceDelegate `$sceDelegate`] comes with sane defaults to allow you to load templates in `ng-include` from your application's domain without having to even know about SCE. It blocks loading templates from other domains or loading templates over `http` from an `https` served document. You can change these by setting your own custom [@link ng.$sceDelegateProvider#resourceUrlWhitelist whitelists] and [@link ng.$sceDelegateProvider#resourceUrlBlacklist blacklists] for matching such URLs.

This significantly reduces the overhead. It is far easier to pay the small overhead and have an application that's secure and can be audited to verify that with much more ease than bolting

---

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security onto an application later.

### What trusted context types are supported?

<table>
<thead>
<tr>
<th>Context</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>$sce.HTML</code></td>
<td>For HTML that's safe to source into the application. The ng.directive:ng BindHtml directive uses this context for bindings. If an unsafe value is encountered and the ngSanitize module is present this will sanitize the value instead of throwing an error.</td>
</tr>
<tr>
<td><code>$sce.CSS</code></td>
<td>For CSS that's safe to source into the application. Currently unused. Feel free to use it in your own directives.</td>
</tr>
<tr>
<td><code>$sce.URL</code></td>
<td>For URLs that are safe to follow as links. Currently unused (<code>&lt;a href=</code>, <code>&amp;lt;img src=</code> sanitize their urls and don't constitute an SCE context.</td>
</tr>
<tr>
<td><code>$sce.RESOURCE_URL</code></td>
<td>For URLs that are not only safe to follow as links, but whose contents are also safe to include in your application. Examples include <code>ng-include</code>, <code>src</code> / <code>ngSrc</code> bindings for tags other than <code>IMG</code> (e.g. <code>IFRAME</code>, <code>OBJECT</code>, etc.) <code>&lt;br&gt;&lt;br&gt;Note that </code>$sce.RESOURCE_URL<code>makes a stronger statement about the URL than</code>$sce.URL<code>does and therefore contexts requiring values trusted for</code>$sce.RESOURCE_URL<code>can be used anywhere that values trusted for</code>$sce.URL` are required.</td>
</tr>
<tr>
<td><code>$sce.JS</code></td>
<td>For JavaScript that is safe to execute in your application's context. Currently unused. Feel free to use it in your own directives.</td>
</tr>
</tbody>
</table>

## Format of items in `$sceDelegateProvider#resourceUrlWhitelist`/`$sceDelegateProvider#resourceUrlBlacklist`

Each element in these arrays must be one of the following:

- **`self`**
  - The special **`self`**, which is a special value for **`self`**, can be used to match against all URLs of the **same domain** as the application document using the **same protocol**.
- **String** (except the special value **`self`**)
  - The string is matched against the full *normalized / absolute URL* of the resource being tested (substring matches are not good enough.)
  - There are exactly **two wildcard sequences** - `*` and `**`. All other characters match themselves.
  - `*`: matches zero or more occurrences of any character other than one of the following 6 characters: `\`, ``\`, `?`, `&`, `;`, `.`. It's a useful wildcard for use in a whitelist.
  - `**`: matches zero or more occurrences of *any* character. As such, it's not appropriate for use in a scheme, domain, etc. as it would match too much. (e.g. http://**.example.com/ would match http://evil.com/?ignore=.example.com/ and that might not have been the intention.) Its usage at the very end of the path is ok. (e.g. http://foo.example.com/templates/**).
- **RegExp** (*see caveat below*)
  - *Caveat*: While regular expressions are powerful and offer great flexibility, their syntax and all the inevitable escaping makes them *harder to maintain*. It's easy to accidentally introduce a bug when one updates a complex expression (imho, all regexes should have good test coverage). For instance, the use of `\.` in the regex is correct only in a
small number of cases. A `:` character in the regex used when matching the scheme or a 
subdomain could be matched against a `:` or literal `:` that was likely not intended. It 
is highly recommended to use the string patterns and only fall back to regular expressions 
as a last resort.

- The regular expression must be an instance of RegExp (i.e. not a string.) It is 
matched against the **entire** / absolute URL/ of the resource being tested 
(even when the RegExp did not have the `^` and `$` codes.) In addition, any flags 
present on the RegExp (such as multiline, global, ignoreCase) are ignored.

- If you are generating your JavaScript from some other templating engine (not 
recommended, e.g. in issue [#4006](https://github.com/angular/angular.js/issues/4006)), 
remember to escape your regular expression (and be aware that you might need more than 
one level of escaping depending on your templating engine and the way you interpolated 
the value.) Do make use of your platform's escaping mechanism as it might be good 
enough before coding your own. E.g. Ruby has

  [Regexp.escape(str)](http://www.ruby-doc.org/core-2.0.0/Regexp.html#method-c-escape)

and Python has [re.escape](http://docs.python.org/library/re.html#re.escape).

Javascript lacks a similar built in function for escaping. Take a look at Google 
Closure library's [goog.string.regExpEscape(s)](http://docs.closure-library.googlecode.com/git/closure_goog_string_string.js.source.html#line962).

- Refer [@link ng.SceDelegateProvider $sceDelegateProvider](/) for an example.

## Show me an example using SCE.

```html
<example module="mySceApp" deps="angular-sanitize.js">

  <file name="index.html">
    <div ng-controller="AppController as myCtrl">
      <i ng-bind-html="myCtrl.explicitlyTrustedHtml" id="explicitlyTrustedHtml"></i><br>
      <b>User comments</b><br>
      By default, HTML that isn't explicitly trusted (e.g. Alice's comment) is sanitized when 
      $sanitize is available. If $sanitize isn't available, this results in an error instead of an 
      exploit.
    </div>
  </file>

  <file name="script.js">
    angular.module('mySceApp', ['ngSanitize'])
    .controller('AppController', ['$http', '$templateCache', '$sce', 
      function($http, $templateCache, $sce) {
        var self = this;
        $http.get("test_data.json", {cache: $templateCache}).success(function(userComments) {
```
self.userComments = userComments;
}

self.explicitlytrustedHtml = $sce.trustAsHtml(
  '&lt;span onmouseover="this.textContent=&quot;Explicitly trusted HTML bypasses ' +
  'sanitization.&quot;&gt;Hover over this text.&lt;/span&gt;');
]);
</file>

<file name="test_data.json">
[
  { "name": "Alice",
    "htmlComment":
      "&lt;span onmouseover='this.textContent="PWN3D!"'>Is &lt;i&gt;anyone&lt;/i&gt; reading this?&lt;/span&gt;"
  },
  { "name": "Bob",
    "htmlComment": "&lt;i&gt;Yes!&lt;/i&gt; Am I the only other one?"
  }
]
</file>

<file name="protractor.js" type="protractor">
describe('SCE doc demo', function() {
  it('should sanitize untrusted values', function() {
    expect(element.all(by.css('.htmlComment')).first().getInnerHtml())
        .toBe('<span>Is &lt;i&gt;anyone&lt;/i&gt; reading this?&lt;/span&gt;');
  });
  
  it('should NOT sanitize explicitly trusted values', function() {
    expect(element(by.id('explicitlyTrustedHtml')).getInnerHtml()).toBe(
      '&lt;span onmouseover="this.textContent=&quot;Explicitly trusted HTML bypasses ' +
      'sanitization.&quot;&gt;Hover over this text.&lt;/span&gt;');
  });
});
</file>
</example>

## Can I disable SCE completely?

Yes, you can. However, this is strongly discouraged. SCE gives you a lot of security benefits
for little coding overhead. It will be much harder to take an SCE disabled application and
either secure it on your own or enable SCE at a later stage. It might make sense to disable SCE
for cases where you have a lot of existing code that was written before SCE was introduced and
you're migrating them a module at a time.

That said, here's how you can completely disable SCE:
angular.module('myAppWithSceDisabledmyApp', []).config(function($sceProvider) {
    // Completely disable SCE. For demonstration purposes only!
    // Do not use in new projects.
    $sceProvider.enabled(false);
});

/**
 * jQuery JavaScript Library v3.1.0
 * https://jquery.com/
 *
 * Includes Sizzle.js
 * https://sizzlejs.com/
 *
 * Copyright jQuery Foundation and other contributors
 * Released under the MIT license
 * https://jquery.org/license
 *
 * Date: 2016-07-07T21:44Z
 */
/**
 * @license AngularJS v1.5.8
 * (c) 2010-2016 Google, Inc. http://angularjs.org
 * License: MIT
 */
/**
 * @ngdoc service
 * @name $sce
 * @kind function
 *
 * @description
$sce$ is a service that provides Strict Contextual Escaping services to AngularJS.

## Strict Contextual Escaping

Strict Contextual Escaping (SCE) is a mode in which AngularJS requires bindings in certain contexts to result in a value that is marked as safe to use for that context. One example of such a context is binding arbitrary HTML controlled by the user via `ng-bind-html`. We refer to these contexts as privileged or SCE contexts.

As of version 1.2, Angular ships with SCE enabled by default.

Note: When enabled (the default), IE<11 in quirks mode is not supported. In this mode, IE<11 allows one to execute arbitrary JavaScript by the use of the expression() syntax. Refer to [http://blogs.msdn.com/b/ie/archive/2008/10/16/ending-expressions.aspx](http://blogs.msdn.com/b/ie/archive/2008/10/16/ending-expressions.aspx) to learn more about them.

You can ensure your document is in standards mode and not quirks mode by adding `<!doctype html>` to the top of your HTML document.

SCE assists in writing code in a way that (a) is secure by default and (b) makes auditing for security vulnerabilities such as XSS, clickjacking, etc. a lot easier.

Here's an example of a binding in a privileged context:

```
<input ng-model="userHtml" aria-label="User input">
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Notice that `ng-bind-html` is bound to `userHtml` controlled by the user. With SCE disabled, this application allows the user to render arbitrary HTML into the DIV.

In a more realistic example, one may be rendering user comments, blog articles, etc. via bindings. (HTML is just one example of a context where rendering user controlled input creates security vulnerabilities.)

For the case of HTML, you might use a library, either on the client side, or on the server side, to sanitize unsafe HTML before binding to the value and rendering it in the document.

How would you ensure that every place that used these types of bindings was bound to a value that was sanitized by your library (or returned as safe for rendering by your server?) How can you ensure that you didn't accidentally delete the line that sanitized the value, or renamed some properties/fields and forgot to update the binding to the sanitized value?

To be secure by default, you want to ensure that any such bindings are disallowed unless you can determine that something explicitly says it's safe to use a value for binding in that context. You can then audit your code (a simple grep would do) to ensure that this is only done for those values that you can easily tell are safe - because they were received from your server, sanitized by your library, etc. You can organize your codebase to help with this - perhaps allowing only the files in a specific directory to do this. Ensuring that the internal API exposed by that code doesn't markup arbitrary values as safe then becomes a more manageable task.
In the case of AngularJS' SCE service, one uses `sce.trustAs` (and shorthand methods such as `sce.trustAsHtml`, etc.) to obtain values that will be accepted by SCE / privileged contexts.

## How does it work?

In privileged contexts, directives and code will bind to the result of `sce.getTrusted` rather than to the value directly. Directives use `sce.parseAs` rather than `$parse` to watch attribute bindings, which performs the `sce.getTrusted` behind the scenes on non-constant literals.

As an example, `ngBindHtml` uses `sce.parseAsHtml(binding expression)`. Here's the actual code (slightly simplified):

```
var ngBindHtmlDirective = ['$sce', function($sce) {
    return function(scope, element, attr) {
        scope.$watch($sce.parseAsHtml(attr.ngBindHtml), function(value) {
            element.html(value || '"
        });
    }];
}];
```

## Impact on loading templates

This applies both to the `ng-include` directive as well as `templateUrl`'s specified by `ngInclude`'s directive as well as `templateUrl`'s specified by `ngInclude`'s.

By default, Angular only loads templates from the same domain and protocol as the application document. This is done by calling `sce.getTrustedResourceUrl` on the template URL. To load templates from other domains and/or protocols, you may either `sceDelegateProvider.resourceUrlWhitelist whitelist them` or `sce.trustAsResourceUrl wrap it` into a trusted value.

* Please note:*

The browser's [Same Origin Policy](https://code.google.com/p/browsersec/wiki/Part2#Same-origin_policy_for_XMLHttpRequest) and [Cross-Origin Resource Sharing (CORS)](http://www.w3.org/TR/cors/) policy apply in addition to this and may further restrict whether the template is successfully loaded. This means that without the right CORS policy, loading templates from a different domain won't work on all browsers. Also, loading templates from `file://` URL does not work on some browsers.
## This feels like too much overhead

* It's important to remember that SCE only applies to interpolation expressions.

* If your expressions are constant literals, they're automatically trusted and you don't need to call `$sce.trustAs` on them (remember to include the `ngSanitize` module) (e.g. `\<div ng-bind-html="'<b>implicitly trusted</b>'"></div\>`) just works.

* Additionally, `a[href]` and `img[src]` automatically sanitize their URLs and do not pass them through [@link ng.$sce#getTrusted $sce.getTrusted]. SCE doesn't play a role here.

* The included [@link ng.$sceDelegate $sceDelegate] comes with sane defaults to allow you to load templates in `ng-include` from your application's domain without having to even know about SCE.

* It blocks loading templates from other domains or loading templates over http from an https served document. You can change these by setting your own custom [@link ng.$sceDelegateProvider#resourceUrlWhitelist whitelists] and [@link ng.$sceDelegateProvider#resourceUrlBlacklist blacklists] for matching such URLs.

* This significantly reduces the overhead. It is far easier to pay the small overhead and have an application that's secure and can be audited to verify that with much more ease than bolting security onto an application later.

* <a name="contexts"></a>

## What trusted context types are supported?

<table>
<thead>
<tr>
<th>Context</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>$sce.HTML</code></td>
<td>For HTML that's safe to source into the application. The [@link ng.directive:ngBindHtml ngBindHtml] directive uses this context for bindings. If an unsafe value is encountered and the [@link ngSanitize $sanitize] module is present this will sanitize the value instead of throwing an error.</td>
</tr>
<tr>
<td><code>$sce.CSS</code></td>
<td>For CSS that's safe to source into the application. Currently unused. Feel free to use it in your own directives.</td>
</tr>
<tr>
<td><code>$sce.URL</code></td>
<td>For URLs that are safe to follow as links. Currently unused (<code>\&lt;a href='' and </code>&lt;img src='' sanitize their urls and don't constitute an SCE context.</td>
</tr>
<tr>
<td><code>$sce.RESOURCE_URL</code></td>
<td>For URLs that are not only safe to follow as links, but whose contents are also safe to include in your application. Examples include <code>ng-include</code>, <code>\src { /ngSrc</code> bindings for tags other than <code>IMG</code> (e.g. <code>IFRAME</code>, <code>OBJECT</code>, etc.) Note that <code>$sce.RESOURCE_URL</code> makes a stronger statement about the URL than <code>$sce.URL</code> does and therefore contexts requiring values trusted for <code>$sce.RESOURCE_URL</code> can be used anywhere that values trusted for <code>$sce.URL</code> are required.</td>
</tr>
<tr>
<td><code>$sce.JS</code></td>
<td>For JavaScript that is safe to execute in your application's context. Currently unused. Feel free to use it in your own directives.</td>
</tr>
</tbody>
</table>

## Format of items in [@link ng.$sceDelegateProvider#resourceUrlWhitelist resourceUrlWhitelist]/{@link ng.$sceDelegateProvider#resourceUrlBlacklist Blacklist} <a name="resourceUrlPatternItem"></a>

Each element in these arrays must be one of the following:

* `''self''`
- The special "**string**, "self", can be used to match against all URLs of the **same**
  domain** as the application document using the **same protocol**.
- "**String**(except the special value "self")
- The string is matched against the full "*normalized / absolute URL* of the resource
  being tested (substring matches are not good enough.)
- There are exactly **two wildcard sequences** - `*` and `**`. All other characters
  match themselves.
- `*`: matches zero or more occurrences of any character other than one of the following 6
  characters: `;` , `/` , `.` , `?` , `&` and `;`. It's a useful wildcard for use
  in a whitelist.
- `**`: matches zero or more occurrences of *any* character. As such, it's not
  appropriate for use in a scheme, domain, etc. as it would match too much. (e.g.
  http://**.example.com/ would match http://evil.com/?ignore=example.com/ and that might
  not have been the intention.) Its usage at the very end of the path is ok. (e.g.
  http://foo.example.com/templates/**).
- **RegExp** (*see caveat below*)
  - *Caveat*: While regular expressions are powerful and offer great flexibility, their syntax
    (and all the inevitable escaping) makes them *harder to maintain*. It's easy to
    accidentally introduce a bug when one updates a complex expression (imho, all regexes should
    have good test coverage). For instance, the use of ".` in the regex is correct only in a
    small number of cases. A `.` character in the regex used when matching the scheme or a
    subdomain could be matched against a `:` or literal `.` that was likely not intended. It
    is highly recommended to use the string patterns and only fall back to regular expressions
    as a last resort.
- The regular expression must be an instance of RegExp (i.e. not a string.) It is
  matched against the **entire** "*normalized / absolute URL* of the resource being tested
  (even when the RegExp did not have the `^` and `$` codes.) In addition, any flags
  present on the RegExp (such as multiline, global, ignoreCase) are ignored.
- If you are generating your JavaScript from some other templating engine (not
  recommended, e.g. in issue [#4006](https://github.com/angular/angular.js/issues/4006)),
  remember to escape your regular expression (and be aware that you might need more than
  one level of escaping depending on your templating engine and the way you interpolated
  the value.) Do make use of your platform's escaping mechanism as it might be good
  enough before coding your own. E.g. Ruby has
  [Regexp.escape(str)][http://www.ruby-doc.org/core-2.0.0/Regexp.html#method-c-escape]
  and Python has [re.escape](http://docs.python.org/library/re.html#re.escape).
  Javascript lacks a similar built in function for escaping. Take a look at Google
  Closure library's [goog.string.regExpEscape(s)][http://docs.closure-library.googlecode.com/git/closure_goog_string_string.js.source.html#line962].
- Refer [@link ng.$sceDelegateProvider $sceDelegateProvider](http://docs.angularjs.org/api/ng.$sceDelegateProvider) for an example.
- **## Show me an example using SCE.**
  - <example module="mySceApp" deps="angular-sanitize.js">  
    <file name="index.html">  
      <i ng-bind-html="myCtrl.explicitlyTrustedHtml" id="explicitlyTrustedHtml"></i>
    </file>
* User comments<br>
* By default, HTML that isn't explicitly trusted (e.g. Alice's comment) is sanitized when
* $sanitize is available. If $sanitize isn't available, this results in an error instead of an
* exploit.
* <div class="well">
* <div ng-repeat="userComment in myCtrl.userComments">
* <b>{{userComment.name}}</b>:
* <span ng-bind-html="userComment.htmlComment" class="htmlComment"></span>
* <br>
* </div>
* </div>
* </file>

* <file name="script.js">
* angular.module('mySceApp', ['ngSanitize'])
* .controller('AppController', ['$http', '$templateCache', '$sce',
* function($http, $templateCache, $sce) {
* var self = this;
* $http.get("test_data.json", {cache: $templateCache}).success(function(userComments) {
*    self.userComments = userComments;
*    self.explicitlyTrustedHtml = $sce.trustAsHtml(''
*        '<span onmouseover="this.textContent="Explicitly trusted HTML bypasses ' +
*        'sanitization."">Hover over this text.</span>'
*    );
* });
* })];
* </file>

* <file name="test_data.json">
* [
* { "name": "Alice",
*  "htmlComment":
*    "<span onmouseover="this.textContent="PWN3D!"">Is <i>anyone</i> reading this?</span>"
*  },
* { "name": "Bob",
*  "htmlComment": "<i>Yes!</i> Am I the only other one?"
* }]
* </file>

* <file name="protractor.js" type="protractor">
* describe('SCE doc demo', function() {
* it('should sanitize untrusted values', function() {
*   expect(element.all(by.css('.htmlComment')).first().getInnerHtml())
*     .toBe('Is <i>anyone</i> reading this?');
* });
* it('should NOT sanitize explicitly trusted values', function() {
}
## Can I disable SCE completely?

Yes, you can. However, this is strongly discouraged. SCE gives you a lot of security benefits for little coding overhead. It will be much harder to take an SCE disabled application and either secure it on your own or enable SCE at a later stage. It might make sense to disable SCE for cases where you have a lot of existing code that was written before SCE was introduced and you're migrating them a module at a time.

That said, here's how you can completely disable SCE:

```javascript
angular.module('myAppWithSceDisabledmyApp', []).config(function($sceProvider) {
  // Completely disable SCE. For demonstration purposes only!
  $sceProvider.enabled(false);
});
```

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*/
/**
* @ngdoc module
* @name ngMessages
* @description
* The `ngMessages` module provides enhanced support for displaying messages within templates
* (typically within forms or when rendering message objects that return key/value data).
* Instead of relying on JavaScript code and/or complex ng-if statements within your form template to
* show and hide error messages specific to the state of an input field, the `ngMessages` and
* `ngMessage` directives are designed to handle the complexity, inheritance and priority
* sequencing based on the order of how the messages are defined in the template.
* Currently, the ngMessages module only contains the code for the `ngMessages`, `ngMessagesInclude`
* `ngMessage` and `ngMessageExp` directives.
*
* # Usage
* The `ngMessages` directive allows keys in a key/value collection to be associated with a child element
* (or ‘message’) that will show or hide based on the truthiness of that key’s value in the collection. A common use
* case for `ngMessages` is to display error messages for inputs using the `$error` object exposed by the
* [ @link ngModel ngModel] directive.
* The child elements of the `ngMessages` directive are matched to the collection keys by a `ngMessage` or
* `ngMessageExp` directive. The value of these attributes must match a key in the collection that is provided by
* the `ngMessages` directive.
* Consider the following example, which illustrates a typical use case of `ngMessages`. Within the form `myForm` we
* have a text input named `myField` which is bound to the scope variable `field` using the [@link ngModel ngModel]
* directive.
* The `myField` field is a required input of type `email` with a maximum length of 15 characters.
*
```html
<form name="myForm">
  <label>
    Enter text:
    <input type="email" ng-model="field" name="myField" required maxlength="15" />
  </label>
  <div ng-messages="myForm.myField.$error" role="alert">
    <div ng-message="required">Please enter a value for this field.</div>
    <div ng-message="email">This field must be a valid email address.</div>
    <div ng-message="maxlength">This field can be at most 15 characters long.</div>
  </div>
</form>
```
In order to show error messages corresponding to `myField` we first create an element with an `ngMessages` attribute set to the `$error` object owned by the `myField` input in our `myForm` form.

Within this element we then create separate elements for each of the possible errors that `myField` could have. The `ngMessage` attribute is used to declare which element(s) will appear for which error - for example, setting `ng-message="required"` specifies that this particular element should be displayed when there is no value present for the required field `myField` (because the key `required` will be `true` in the object `$myForm.myField.$error`).

### Message order

By default, `ngMessages` will only display one message for a particular key/value collection at any time. If more than one message (or error) key is currently true, then which message is shown is determined by the order of messages in the HTML template code (messages declared first are prioritised). This mechanism means the developer does not have to prioritise messages using custom JavaScript code.

Given the following error object for our example (which informs us that the field `myField` currently has both the `required` and `email` errors):

```javascript
<!-- keep in mind that ngModel automatically sets these error flags -->
myField.$error = { required : true, email: true, maxlength: false };  
```

The `required` message will be displayed to the user since it appears before the `email` message in the DOM. Once the user types a single character, the `required` message will disappear (since the field now has a value) but the `email` message will be visible because it is still applicable.

### Displaying multiple messages at the same time

While `ngMessages` will by default only display one error element at a time, the `ng-messages-multiple` attribute can be applied to the `ngMessages` container element to cause it to display all applicable error messages at once:

```html
<!-- attribute-style usage -->
<div ng-messages="myForm.myField.$error" ng-messages-multiple>...</div>
```

```html
<!-- element-style usage -->
<ng-messages for="myForm.myField.$error" multiple>...</ng-messages>
```

### Reusing and Overriding Messages
* In addition to prioritization, ngMessages also allows for including messages from a remote or an inline template. This allows for generic collection of messages to be reused across multiple parts of an application.

```html
<!-- a generic template of error messages known as "my-custom-messages" -->
<script type="text/ng-template" id="my-custom-messages">
  <div ng-message="required">This field is required</div>
  <div ng-message="minlength">This field is too short</div>
</script>

<form name="myForm">
  <label>
    Email address
    <input type="email" id="email" name="myEmail" ng-model="email" minlength="5" required />
  </label>
</form>
```

* However, including generic messages may not be useful enough to match all input fields, therefore, `ngMessages` provides the ability to override messages defined in the remote template by redefining them within the directive container.

```html
<!-- any ng-message elements that appear BEFORE the ng-messages-include will override the messages present in the ng-messages-include template -->
<div ng-messages="myForm.myEmail.$error" role="alert">
  <!-- this required message has overridden the template message -->
  <div ng-message="required">You did not enter your email address</div>
  <!-- this is a brand new message and will appear last in the prioritization -->
  <div ng-message="email">Your email address is invalid</div>
  <!-- and here are the generic error messages -->
  <div ng-messages-include="my-custom-messages"></div>
</div>
```
In the example HTML code above the message that is set on required will override the corresponding required message defined within the remote template. Therefore, with particular input fields (such email addresses, date fields, autocomplete inputs, etc...), specialized error messages can be applied while more generic messages can be used to handle other, more general input errors.

### Dynamic Messaging

ngMessages also supports using expressions to dynamically change key values. Using arrays and repeaters to list messages is also supported. This means that the code below will be able to fully adapt itself and display the appropriate message when any of the expression data changes:

```html
<form name="myForm">
  <label>
    Email address
    <input type="email" name="myEmail" ng-model="email" minlength="5" required />
  </label>
  <div ng-messages="myForm.myEmail.$error" role="alert">
    <div ng-message="required">You did not enter your email address</div>
    <div ng-repeat="errorMessage in errorMessages">
      <!-- use ng-message-exp for a message whose key is given by an expression -->
      <div ng-message-exp="errorMessage.type">{{ errorMessage.text }}</div>
    </div>
  </div>
</form>
```

The `errorMessage.type` expression can be a string value or it can be an array so that multiple errors can be associated with a single error message:

```html
<form name="myForm">
  <label>
    Email address
    <input type="email" name="myEmail" ng-model="data.email" ng-minlength="5" ng-maxlength="100" required />
  </label>
  <div ng-messages="myForm.myEmail.$error" role="alert">
    <div ng-message-exp="errorMessage.type">{{ errorMessage.text }}</div>
  </div>
</form>
```
* Feel free to use other structural directives such as ng-if and ng-switch to further control
* what messages are active and when. Be careful, if you place ng-message on the same element
* as these structural directives, Angular may not be able to determine if a message is active
* or not. Therefore it is best to place the ng-message on a child element of the structural
* directive.
* 
* ```html
* <div ng-messages="myForm.myEmail.$error" role="alert">
*   <div ng-if="showRequiredError">
*     <div ng-message="required">Please enter something</div>
*   </div>
* </div>
* ```

## Animations
* If the `ngAnimate` module is active within the application then the `ngMessages`, `ngMessage` and
* `ngMessageExp` directives will trigger animations whenever any messages are added and removed from
* the DOM by the `ngMessages` directive.
* 
* Whenever the `ngMessages` directive contains one or more visible messages then the `.ng-active` CSS
* class will be added to the element. The `.ng-inactive` CSS class will be applied when there are no
* messages present. Therefore, CSS transitions and keyframes as well as JavaScript animations can
* hook into the animations whenever these classes are added/removed.
* 
* Let's say that our HTML code for our messages container looks like so:
* 
* ```html
* <div ng-messages="myMessages" class="my-messages" role="alert">
*   <div ng-message="alert" class="some-message">...</div>
*   <div ng-message="fail" class="some-message">...</div>
* </div>
* ```

* Then the CSS animation code for the message container looks like so:
* 
* ```css
* .my-messages {
*   transition:1s linear all;
* }
* .my-messages.ng-active {
*   // messages are visible
* }
```
* .my-messages.ng-inactive {
  // messages are hidden
* }
* ```
*
* Whenever an inner message is attached (becomes visible) or removed (becomes hidden) then the enter
* and leave animation is triggered for each particular element bound to the `ngMessage` directive.
* 
* Therefore, the CSS code for the inner messages looks like so:
*
* ```css
* .some-message {
*   transition:1s linear all;
* }
* ```
*
* .some-message.ng-enter {}
* .some-message.ng-enter.ng-enter-active {}
* 
* .some-message.ng-leave {}
* .some-message.ng-leave.ng-leave-active {}
* ```
* ```
*
* [ @link ngAnimate Click here] to learn how to use JavaScript animations or to learn more about ngAnimate.
*/
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035237488_1589179083.7/0/python-XStatic-Angular-1.5.8.0-1.el7ost-1.src.rpm-
  cosi-expand-archive-zUpqopsi/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-Zwfvwdl2/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-messages.js

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* /opt/ws_local/PERMITS_SQL/1035237488_1589179083.7/0/python-XStatic-Angular-1.5.8.0-1.el7ost-1.src.rpm-
  cosi-expand-archive-zUpqopsi/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-Zwfvwdl2/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-parse-ext.js
* /opt/ws_local/PERMITS_SQL/1035237488_1589179083.7/0/python-XStatic-Angular-1.5.8.0-1.el7ost-1.src.rpm-
  cosi-expand-archive-zUpqopsi/XStatic-Angular-1.5.8.0.tar.gz-cosi-expand-archive-Zwfvwdl2/XStatic-Angular-1.5.8.0/xstatic/pkg/angular/data/angular-aria.js
1.472 python-dateutil 2.7.5

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g9
((ltRp70
sg15
g45
sbs'SLabel'
p71
g2
(g3
g4
(g44
g71
trRp72
(dp73
g8
g9
((ltRp74
sg15
g45
sbs'SBlubb'
p75
g2
(g3
g4
(g44
g75
trRp76
(dp77
g8
g9
((ltRp78
sg15
g45
sbs'SEntity'
p79
g2
(g3
g4
(g44
g79
trRp80
(dp81
g8
g9
((ltRp82
sg15
g45
sbs'SBuiltin'
p83
S'Namespace'
p125
ttRp126
(dp127
g8
g9
((ltRp128
sg15
g45
sbag96
ag84
ag100
ag92
ag76
ag80
ag48
ag2
(g3
g4
(g44
S'Property'
p129
ttRp130
(dp131
g8
g9
((ltRp132
sg15
g45
sbag72
ag56
ag52
ag2
(g3
Open Source Used In Cisco VIM 3.4.6 5417
Open Source Used In Cisco VIM 3.4.6 5418
sg15
g167
sbag170
atRp210
sg206
g207
sg202
g203
sg198
g199
sbsg5
g6
'SPunctuation'
p211
g2
(g3
g4
(g211
ttRp212
dp213
g8
g9
((lp214
g2
(g3
g4
(g211
'SIndicator'
p215
ttRp216
dp217
g8
g9
((ttRp218
sg15
g212
sbatRp219
sg215
g216
sg15
g21
sbs'SToken'
p220
g21
s'SNumber'
p221
g2
(g3
sbag328
ag320
ag324
atRp345
sg341
g342
sbsg222
g233
sg91
g2
(g3
g4
(g91
ttRp346
dp347
g8
g9
((ltRp348
sg15
g21
sbsg193
g2
(g3
g4
(g193
ttRp349
dp350
g8
g9
((ltRp351
sg15
g21
sbs'SOperator'
p352
g2
(g3
g4
(g352
ttRp353
dp354
g8
g9
((lp355
g2
(g3
g4
(g352
'S'Word'
V# New ports collection makefile for: python25
p364
tp365
atg6
V
tp366
atg24
V# Date created: 3 July 2003
p367
tp368
atg6
V
tp369
atg24
V# Whom: Hye-Shik Chang <perky@FreeBSD.org>

---

Open Source Used In Cisco VIM 3.4.6 5433
Open Source Used In Cisco VIM 3.4.6  5435

VCATEGORIES

p393

V=tp395

a[g6

Vtp396

a[g6

Vlangp397

tp398

a[g6

Vtp399

a[g6

Vpythonp400

tp401

a[g6

Vtp402

a[g6

Vipv6p403

tp404

a[g6

V\u00000a

tp405

a[g100

VMASTER_SITES

p406

tp407

a[g353

V=tp408

a[g6

Vtp409

a[g138

Vp410
Open Source Used In Cisco VIM 3.4.6

```
VPYTHON_MASTER_SITES

VDISTFILES
```
Open Source Used In Cisco VIM 3.4.6  5437

VPYTHON_DISTFILE

VMAINTAINER

COMMENT?
p451
p452
a(g6
V
p453
a(g6
V
p454
p455
a(g6
V
p456
a(g6
V
p457
p458
a(g6
V
p459
a(g6
V
p460
p461
a(g6
V
p462
p463
a(g100
V
p464
p465
a(g353
V=

p466
a(g6
V
p467
a(g6
V
p468
p469
a(g6
V
p470
a(g100
V
p471
p472

Open Source Used In Cisco VIM 3.4.6  5438
Open Source Used In Cisco VIM 3.4.6 5440

VGNU_CONFIGURE

V=Yes

VCONFIGURE_TARGET

V--build

VMACHINE_ARCH
p513
tp514
atg138
V$

tp515
tp516
atg100
VOSREL

tp517
tp518
atg138
V

tp519
atg6
V\u000a

tp520
atg100
VCONFIGURE_SCRIPT

tp521
tp522
atg353
V=

tp523
atg6
V

tp524
atg6
V
../configure

tp525
tp526
atg6
V

tp527
atg24
V# must be relative\u000a

tp528
tp529
atg100
VCONFIGURE_ENV

tp530
tp531
atg353
V=

tp532
atg6
V

tp533
atg100
VOPT
p534
tp535
atg353
V=
tp536
atg255
V"${CFLAGS}""p537
tp538
atg6
V
 tp539
atg100
SVNVERSION
p540
tp541
atg353
V=
tp542
atg255
V"echo freebsd"
p543
tp544
atg6
Vu000a
 tp545
atg100
VMAKE_ENV
p546
tp547
atg353
V=
tp548
atg6
V
 tp549
atg100
VVPATH
p550
tp551
atg353
V=
tp552
atg255
V"${PYTHON_WRK_SRC}"
p553
tp554
VINSTALLS_SHLIB

p556

atg100

VINSTALLS_SHLIB

p556

atg100

VINSTALL_TARGET

p563

V

atg100

VMAN1
a(g138
V$\;
p575
tp576
a(g100
VPYTHON_VERSION
p577
tp578
a(g138
V}
tp579
a(g6
V.1
p580
tp581
a(g6
V\u000a\u000a
p582
tp583
a(g100
VUSE_PYTHON
p584
tp585
a(g353
V=
tp586
a(g6
V
tp587
a(g6
Vyes
p588
tp589
a(g6
V\u000a
p590
a(g100
VPYTHON_VERSION
p591
tp592
a(g353
V=
tp593
a(g6
V
tp594
a(g6
Vpython2.5
p595
p596
a\(g6
V\u000a000a
p597
a\(g100
VPYTHON_NO_DEPENDS
p598
p599
a\(g353
V=

p600
a\(g6
V

p601
a\(g6
V\{\es

p602
p603
a\(g6
V\u000a000a\u000a

p604
p605
a\(g100
VSHARED_WRKSR
p606
p607
a\(g353
V=

p608
a\(g6
V

p609
a\(g138
V\{\}

p610
p611
a\(g100
VPYTHON_WRKSR
p612
p613
a\(g138
V\}

p614
a\(g6
V/portbld.shared

p615
p616
Open Source Used In Cisco VIM 3.4.6 5447
a(g6
V
 tp679
 a(g138
 VS{
 p680
 tp681
 a(g100
 VPREFIX
 p682
 tp683
 a(g138
 V}
 tp684
 a(g6
 V/share/examples/
 p685
 tp686
 a(g138
 VS{
 p687
 tp688
 a(g100
 VPYTHON_VERSION
 p689
 tp690
 a(g138
 V}
 tp691
 a(g6
 V\u000a
 tp692
 a(g100
 VTOOLS\n p693
 tp694
 a(g353
 V=
 tp695
 a(g6
 V
 tp696
 a(g138
 VS{
 p697
 tp698
 a(g100
 VPREFIX
Open Source Used In Cisco VIM 3.4.6 5450
a(g6
Vpython
p721
tp722
a(g6
V
tp723
a(g6
Vpython-shared
p724
tp725
a(g6
V
tp726
a(g6
Vsmtpd.py
p727
tp728
a(g6
V
tp729
a(g6
Vpython-config
p730
tp731
a(g6
V
tp732
a(g262
V\u005c\u000a
p733
tp734
a(g6
V
p735
tp736
a(g6
Vpython-shared-config
p737
tp738
a(g6
V\u000a
p739
a(g100
VBINLINKS_SUB
p740
tp741
a(g353
V=
tp742
atg6
V
tp743
atg6
V-e
p744
tp745
atg6
V
tp746
atg281
V's,smtpd,smtpd${PYTHON_VER},'p747
tp748
atg6
V
tp749
atg262
V\u005c\u000a
p750
tp751
atg6
V
p752
tp753
atg6
V-e
p754
tp755
atg6
V
tp756
atg281
V's,(idle|pydoc|python-shared|python),\u005c1${PYTHON_VER},'p757
tp758
atg6
V\u000a\u000a
p759
tp760
atg100
VOPTIONS
p761
tp762
atg353
V=
"Use UCS4 for unicode support"
Use python's internal malloc

Enable IPv6 support
V"Enable floating point exception handling"

V.include <bsd.port.pre.mk>

V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

V.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

VMLINKS
Open Source Used In Cisco VIM 3.4.6  5457
VPLIST_SUB+

VIF_DEFAULT

V# workaround for a bug in base curses.h.
V
tp890
atg6
VCFLAGS+
p891
tp892
atg353
V=
tp893
atg6
V
tp894
atg6
V-D__wchar_t
p895
tp896
atg353
V=
tp897
atg6
Vwchar_t
p898
tp899
atg6
Vu000a\u000a
p900
tp901
atg27
V.if !defined(WITHOUT_THREADS)\u000a
p902
tp903
atg6
V
tp904
atg6
VCONFIGURE_ARGS+
p905
tp906
atg353
V=
tp907
atg6
V
tp908
atg6
V--with-threads
p909
tp910
at(g6)
V\u0000a
tp911
at(g6)
VCFLAGS+
p912
tp913
at(g353)
V=
tp914
at(g6)
V
p915
tp916
at(g138)
V${}
p917
tp918
at(g100)
VPTHREAD_CFLAGS
p919
tp920
at(g138)
V]
tp921
at(g6)
V\u0000a
tp922
at(g27)
V. if defined(WITHOUT_HUGE_STACK_SIZE)\u0000a
p923
tp924
at(g6)
V
tp925
at(g6)
VCFLAGS+
p926
tp927
at(g353)
V=
tp928
at(g6)
V
p929
tp930
at(g6)
V-DTHREAD_STACK_SIZE

Open Source Used In Cisco VIM 3.4.6 5460
p931
tp932
a(g353
V=
tp933
a(g6
V0x20000
p934
tp935
a(g6
V\u000a
tp936
a(g27
V.else\u000a
p937
tp938
a(g6
V
tp939
a(g6
VCFLAGS+
p940
tp941
a(g353
V=
tp942
a(g6
V
p943
tp944
a(g6
V-DTHREAD_STACK_SIZE
p945
tp946
a(g353
V=
tp947
a(g6
V0x100000
p948
tp949
a(g6
V\u000a
tp950
a(g27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p951
tp952

Open Source Used In Cisco VIM 3.4.6 5461


VCONFIGURE_ENV+

VLDFLAGS

V"${PTHREAD_LIBS} ${LDFLAGS}"

V--without-threads
V. if defined(LDFLAGS)
VCONFIGURE_ENV+ = 
VLDFLAGS = "${LDFLAGS}" 
V.endif # defined(LDFLAGS)
V.endif # !defined(WITHOUT_THREADS)
V
if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)

VCONFIGURE_ARGS+

V--enable-unicode

V.endif

V.if defined(WITHOUT_PYMALLOC)


VCONFIGURE_ARGS+
p1014
tp1015
atg353
V=
tp1016
atg6
V
p1017
tp1018
atg6
V--without-pymalloc
p1019
tp1020
atg6
V\u000a
p1021
atg27
Vendif\u000a
p1022
tp1023
atg6
V\u000a
p1024
atg27
Vif ${ARCH} == i386\u000a
p1025
tp1026
atg6
V
tp1027
atg6
VPLIST_SUB+
p1028
tp1029
atg353
V=
tp1030
atg6
V
p1031
atg100
VX86_ONLY
p1032
tp1033
atg353
V=
tp1034
if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha

else

endif
tp1055
a(g6
V
tp1056
a(g6
VPLIST_SUB+
tp1057
tp1058
a(g353
V=
tp1059
a(g6
V
p1060
tp1061
a(g100
V32BIT_ONLY
p1062
tp1063
a(g353
V=
tp1064
a(g255
V"@comment"
p1065
tp1066
a(g6
V\u0000a
p1067
a(g27
V.else\u0000a
p1068
tp1069
a(g6
V
tp1070
a(g6
VPLIST_SUB+
tp1071
tp1072
a(g353
V=
tp1073
a(g6
V
p1074
tp1075
a(g100
V32BIT_ONLY
p1076
tp1077
atg353
V=
tp1078
atg255
V="
p1079
tp1080
atg6
V\u000a
tp1081
atg27
V.endif\u000a
p1082
tp1083
atg6
V


if ${ARCH} == sparc64\u000a
p1085


atg353
V=
tp1090
atg6
V
p1091


atg6
V.


-DPYTHON_DEFAULT_RECURSION_LIMIT
p1093


atg353
V=
tp1095
atg6
V900
p1096
V
VPLIST_SUB+
V=VNO_NIS
V"@comment "
V.
VPLIST_SUB+

VNO_NIS

V= 

V

V

V

V= 

V

V

V.if !defined(WITHOUT_IPv6)

V

V

V

V

V

V

V
tp1137
a(g6
V--enable-ipv6
p1138
tp1139
a(g6
V\u000a
tp1140
a(g27
V.else\u000a
p1141
tp1142
a(g6
V
tp1143
a(g6
VCONFIGURE_ARGS+

p1144

p1145
a(g353
V=

p1146
a(g6
V

p1147
a(g6
V--disable-ipv6
p1148

p1149
a(g6
V\u000a

p1150
a(g27
V.endif\u000a
p1151

p1152
a(g6
V\u000a

p1153
a(g27
V.if defined(WITH_FPECTL)\u000a

p1154

p1155
a(g6
V

p1156
a(g6
VCONFIGURE_ARGS+
p1157
tp1158
a(g353
V=
 tp1159
a(g6
 V
 tp1160
a(g6
 V--with-fpectl
 p1161
tp1162
a(g6
V\u0000a
 tp1163
a(g27
 V.endif\u0000a
 p1164
tp1165
a(g6
V\u0000a
 tp1166
a(g27
 V.if ${OSVERSION} >= 700000\u0000a
 p1167
tp1168
a(g6
 V
 tp1169
a(g100
VPLATFORMS
 p1170
tp1171
a(g353
 V=
 tp1172
a(g6
 Vplat-freebsd4
 p1173
tp1174
a(g6
 V
 tp1175
a(g6
 Vplat-freebsd5
 p1176
tp1177
a(g6
Vplat-freebsd6
Vplat-freebsd5
Vplat-freebsd4
V-platforms
VPLATFORMS

Y= elif ${OSVERSION} >= 600000
Y= else

Y.elif ${OSVERSION} >= 600000
Y.else

V= elif ${OSVERSION} >= 600000
V.else
VSED

V

V-e

V'1s,^.*$$,#!${PREFIX}/bin/${PYTHON_VERSION},'

V\u005c\u000a

V/Tools/scripts/pydoc

VPATCH_WRKSRC
tp1283
atg281
V's.*$,$!$[PREFIX]/bin/$[PYTHON_VERSION],'
p1284
tp1285
atg6
V
tp1286
atg262
V\u0005\u000a
p1287
tp1288
atg6
V
p1289
tp1290
atg138
VS{
p1291
tp1292
atg100
VPATCH_WRKSRC
p1293
tp1294
atg138
V}
tp1295
atg6
V/Tools/scripts/idle
p1296
tp1297
atg6
V
tp1298
atg6
V$
tp1299
atg6
V
tp1300
atg138
VS{
p1301
tp1302
atg100
VWRKDIR
p1303
tp1304
V$ {p1326
  tp1327
  a(g100
  VPATCH_WRKSRC
  p1328
  tp1329
  a(g138
  V}
  tp1330
  a(g6
  V/Lib/smtpd.py
  p1331
  tp1332
  a(g6
  V
  tp1333
  a(g6
  V>
  tp1334
  a(g6
  V
  tp1335
  a(g138
  V$ {p1336
  tp1337
  a(g100
  VWRKDIR
  p1338
  tp1339
  a(g138
  V}
  tp1340
  a(g6
  V/smtpd2.5.py
  p1341
  tp1342
  a(g6
  V/u0000a
  p1343
  tp1344
  a(g138
  V$ {p1345
  tp1346
  a(g100
  VREINPLACE_CMD
Open Source Used In Cisco VIM 3.4.6 5481
V"
\u005c/Makefile.pre.in
p1479
p1480
a(g138
V}
p1481
a(g6
V/Misc/python-config.in
p1482
tp1483
a(g6
V
p1484
a(g6
V$

VWRKDIR
p1489
tp1489
a(g138
V}
p1491
a(g6
V/
p1492
a(g138
V$

VPYTHON_VERSION
p1495
tp1495
a(g138
V}
p1497
a(g6
V-config
p1498
tp1499
a(g6
Open Source Used In Cisco VIM 3.4.6 5488
V}
tp1542
atg6
V-config
p1543
tp1544
atg6
V\u000a\u000a
p1545
tp1546
atg27
V\nif defined(WITH_FPECTL) && \${ARCH} == i386\u000a
p1547
tp1548
atg6
V
atp1549
atg138
V$
\{$
p1550
tp1551
atg100
VMKDIR
p1552
tp1553
atg138
V$
\{$
p1554
tp1555
atg6
V
atp1556
atg138
V$
\{$
p1557
atg100
VWRKDIR
p1558
tp1559
atg138
V$
\{$
p1560
atp1561
atg6
V/Modules
V\u000a
p1563
tp1564
a(g138
V${

p1565
tp1566
a(g100
VECHO
p1567
tp1568
a(g138
V} tp1569
a(g6
V tp1570
a(g255
V"fpectl fpectlmodule.c"
p1571
tp1572
a(g6
V>> tp1573
a(g6
V tp1574
tp1575
a(g6
V tp1576
a(g138
V${
p1577
tp1578
a(g100
VWRKSRC
p1579
tp1580
a(g138
V} tp1581
a(g6
V/Modules/Setup.dist
p1582
tp1583
a(g6
V\u000a
p1584
Open Source Used In Cisco VIM 3.4.6 5492
Open Source Used In Cisco VIM 3.4.6 5495

V$PYTHON_WRKSRC

VWRKSRC

Vsed
Open Source Used In Cisco VIM 3.4.6

V's,^\u005c(LDLIBRARY=\u005cBLDLIBRARY=\u005c.*$$,\u005c-L. -lpython$$(VERSION),'}

V's,^\u005c(LDLIBRARY=\u005cBLDLIBRARY=\u005c.*$$,\u005c-L. -lpython$$(VERSION),'}
VSHARED_WRKSRC

pre-build:

V
Open Source Used In Cisco VIM 3.4.6 5501
Open Source Used In Cisco VIM 3.4.6 5502
Python Version

V 3.4.6

Open Source Used in Cisco VIM 3.4.6
Open Source Used In Cisco VIM 3.4.6 5504

```python
# pre-su-install:

for platform in ${PLATFORMS}
```
Open Source Used In Cisco VIM 3.4.6 5506
if openssl 0.9.8 is detected, _sha{256,512} module won't be installed

`$\text{VWRKSRC}`

/without_own_sha
```bash
INSTALLED_SCRIPT
V
INSTALLED_DIR
V
INSTALLED_CONFIG
V
INSTALLED_VERSION
V

INSTALL_SCRIPT
V
INSTALLED_DIR
V
INSTALLED_CONFIG
V
INSTALLED_VERSION
V

VARIABLES

WORKDIR
V
WORKDIR_Config
V

PYTHON_VERSION
V
CONFIG
V
VERSION
V

VARIABLES

WORKDIR
V
WORKDIR_Config
V

PYTHON_VERSION
V
CONFIG
V
VERSION
V

VARIABLES

WORKDIR
V
WORKDIR_Config
V

PYTHON_VERSION
V
CONFIG
V
VERSION
V
```

---

**Open Source Used In Cisco VIM 3.4.6**

---

**5515**
VPYTHON_VERSION

V:

V/thon/thon-shared/

V-config

V

V$/

VPREFIX

V/bin

V@@# shared version of executable and library\u000a
V
 tp2150
 a(g262
 V\u005c\u000a
 p2151
 tp2152
 a(g6
 V
 p2153
 tp2154
 a(g138
 VS{
 p2155
 tp2156
 a(g100
 VPREFIX
 p2157
 tp2158
 a(g138
 V}
 tp2159
 a(g6
 V/lib
 p2160
 tp2161
 a(g6
 V\u0000a
 p2162
 tp2163
 a(g84
 Vcd
 p2164
 tp2165
 a(g6
 V
 tp2166
 a(g138
 VS{
 p2167
 tp2168
 a(g100
 VPREFIX
 p2169
 tp2170
 a(g138
 V}
 tp2171
 a(g6

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p2215
tp2216
a(g6
V
tp2217
a(g138
VS{
p2218
tp2219
a(g100
VPREFIX
p2220
tp2221
a(g138
V}
tp2222
a(g6
V/lib/lib
p2223
tp2224
a(g138
VS{
p2225
tp2226
a(g100
VPYTHON_VERSION
p2227
tp2228
a(g138
V}
tp2229
a(g6
V.so
p2230
tp2231
a(g6
V
tp2232
a(g138
VS{
p2233
tp2234
a(g100
VPYTHONPREFIX_LIBDIR
p2235
tp2236
a(g138
V}
Open Source Used In Cisco VIM 3.4.6 5524
additional files installing by ports

V

V

V

V

V

V

V

V

V

V

V

V

V
VMKDIR
VMANPREFIX
VMAN_INSTALL_MANDIR
if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}:
    for v in ['V.1', 'V', 'V.0']:
        if v
if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}:
    for v in ['V.1', 'V', 'V.0']:
        if v
a[g100
VBIN_SCRIPTS
p2389
tp2390
a[g138
V;
tp2391
a[g6
V;
tp2392
a[g6
V
tp2393
a[g138
Vdo
p2394
tp2395
a[g6
V
tp2396
a[g262
V\u005c\u000a
p2397
tp2398
a[g6
V
p2399
tp2400
a[g100
VTARGET
p2401
tp2402
a[g353
V=
tp2403
a[g274
V`
tp2404
a[g138
V$

p2405
tp2406
a[g100
VECHO_CMD
p2407
tp2408
a[g138
V]
a(g262
V\u005c\u000a
p2471
tp2472
a(g6
V
tp2473
a(g138
Vdone
p2474
tp2475
a(g6
V\u005c\u000a
tp2476
a(g27
V.endif\u000a
p2477
tp2478
a(g6
V\u005c\u000a
tp2479
a(g27
V.if !defined(NOPORTDOCS)\u000a
p2480
tp2481
a(g6
V

tp2482
a(g6
V@
tp2483
a(g138
V${}
p2484
tp2485
a(g100
VMKDIR
p2486
tp2487
a(g138
V}
tp2488
a(g6
V

tp2489
a(g138
V${}
p2490
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Open Source Used In Cisco VIM 3.4.6 5541
1.487 tuned 2.10.0 6.el7_6.4

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1.488 python-setuptools 39.0.1
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1.489 findutils 4.6.0+git+20161106-2.debian

1.489.1 Available under license:

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Debian maintainer history: The original package was put together by
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1.502 msgpack 1.2.4

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1.503 python-beautifulsoup4 4.6.0 1.el7ost

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1.519 blosc 1.11.1 3.el7ost

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FastLZ - lightning-fast lossless compression library

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

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For Blosc - A blocking, shuffling and lossless compression library

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1.520 python2-futures 3.1.1 5.el7

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1.522 python2-oslo-rootwrap 5.13.0 1.el7ost

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1.523 python-pycparser 2.14 1.el7

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* Benoit Pradelle
* Dov Feldstern
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A small Python library to parse various kinds of time expressions, inspired by `this StackOverflow question <http://stackoverflow.com/questions/4628122/how-to-construct-a-timedelta-object-from-a-simple-string>`_.

The single function ``pytimeparse.timeparse.timeparse`` defined in the library (also available as `pytimeparse.parse`) parses time expressions like the following:

- ``32m``
- ``2h32m``
- ``3d2h32m``
- ``1w3d2h32m``
- ``1w 3d 2h 32m``
- ``1 w 3 d 2 h 32 m``
It returns the time as a number of seconds (an integer value if possible, otherwise a floating-point number):

```python
>>> from pytimeparse import parse
>>> parse('1.2 minutes')
72
```

A number of seconds can be converted back into a string using the 
``datetime`` module in the standard library, as noted in
``this other StackOverflow question <http://stackoverflow.com/questions/538666/python-format-timedelta-to-strings>`_:

```python
>>> from pytimeparse import parse
>>> import datetime
>>> parse('1 day, 14:20:16')
138016
>>> str(datetime.timedelta(seconds=138016))
'1 day, 14:20:16'
```

Future work
1. Give the user more flexibility over which characters to use as separators between fields in a time expression (e.g., ``+`` might be useful).
2. Internationalisation?

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035237454_1591159270.1/0/python-pytimeparse-1.1.5-1.1.el7ost-1.src.rpm-cosi-expand-archive-DqqnLOVp/pytimeparse-1.1.5.tar.gz-cosi-expand-archive-t8JvNYma/pytimeparse-1.1.5/README.rst
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%{!?__python2: %global __python2 /usr/bin/python2}
%{!?python2_sitelib: %global python2_sitelib %{__python2} -c "from distutils.sysconfig import get_python_lib; print(get_python_lib())"}
%global pypi_name pytimeparse

Name: python-pytimeparse
Version: 1.1.5
Release: 1.1%{?dist}
Summary: Python time expression parse library
License: MIT
URL: https://github.com/wroberts/pytimeparse
Source0: https://pypi.python.org/packages/source/p/%{pypi_name}/%{pypi_name}-%{version}.tar.gz
BuildArch: noarch

BuildRequires: python-setuptools
BuildRequires: python2-devel

%description
A small Python library to parse various kinds of time expressions

%prep
%setup -q -n %{pypi_name}-%{version}

%build

%{__python2} setup.py build

%install
%{__python2} setup.py install --skip-build --root %{buildroot}

%files
%{python2_sitelib}/pytimeparse
%{python2_sitelib}/pytimeparse*.egg-info
%doc README.rst

%changelog
* Wed Oct 28 2015 Jon Schlueter <jschluet@redhat.com> 1.1.5-1.1
  - whitespace cleanup and bump version for rebuild for OSP 8

* Tue Aug 04 2015 Pradeep Kilambi <pkilambi@redhat.com> - 1.1.5-1
  - new version build

* Thu Jun 18 2015 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.1.4-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_23_Mass_Rebuild

* Tue May 05 2015 Pradeep Kilambi <pkilambi@redhat.com> 1.1.4
  - initial package release

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1035237454_1591159270.1/0/python-pytimeparse-1.1.5-1.1.el7ost-1.src.rpm-cosi-expand-archive-DqqnLOVp/python-pytimeparse.spec

1.525 sqlite 3.16.2.orig-www

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```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.527 python2-ironicclient 2.2.2 1.el7ost

1.527.1 Available under license:

--- contributing:

===================================
Contributing to python-ironicclient
===================================

If you're interested in contributing to the python-ironicclient project, the following will help get you started.

#openstack-ironic on Freenode IRC Network

There is a very active chat channel at irc://freenode.net/#openstack-ironic. This is usually the best place to ask questions and find your way around.
IRC stands for Internet Relay Chat and it is a way to chat online in real time. You can ask a question and come back later to read the answer in the log files. Logs for the #openstack-ironic IRC channel are stored at http://eavesdrop.openstack.org/irclogs/%23openstack-ironic/.

Contributor License Agreement
-------------------------------

.. index::
   single: license; agreement

In order to contribute to the python-ironicclient project, you need to have signed OpenStack's contributor's agreement.

..seealso::

   * https://docs.openstack.org/infra/manual/developers.html
   * https://wiki.openstack.org/wiki/CLA

LaunchPad Project
-----------------

Most of the tools used for OpenStack depend on a launchpad.net ID for authentication. After signing up for a launchpad account, join the "openstack" team to have access to the mailing list and receive notifications of important events.

..seealso::

   * https://launchpad.net
   * https://launchpad.net/python-ironicclient
   * https://launchpad.net/~openstack

Project Hosting Details
-----------------------

Bug tracker

   https://launchpad.net/python-ironicclient

Mailing list (prefix subjects with ``[ironic]`` for faster responses)

   http://lists.openstack.org/cgi-bin/mailman/listinfo/openstack-dev

Code Hosting

   https://git.openstack.org/cgit/openstack/python-ironicclient

Code Review

   https://review.openstack.org/#/q/status:open+project:openstack/python-ironicclient,n,z
Python Guideline Enforcement

All code has to pass the pep8 style guideline to merge into OpenStack, to validate the code against these guidelines you can run::

  $ tox -e pep8

Unit Testing

It is strongly encouraged to run the unit tests locally under one or more test environments prior to submitting a patch. To run all the recommended environments sequentially and pep8 style guideline run::

  $ tox

You can also selectively pick specific test environments by listing your chosen environments after a -e flag::

  $ tox -e py35,py27,pep8,pypy

.. note::
  Tox sets up virtual environment and installs all necessary dependencies. Sharing the environment with devstack testing is not recommended due to conflicting configuration with system dependencies.

Functional Testing

Functional testing assumes the existence of the script run_functional.sh in the python-ironicclient/tools directory. The script run_functional.sh generates test.conf file. To run functional tests just run ./run_functional.sh.
Also, the test.conf file could be created manually or generated from environment variables. It assumes the existence of an openstack cloud installation along with admin credentials. The test.conf file lives in ironicclient/tests/functional/ directory. To run functional tests in that way create test.conf manually and run::

```bash
$ tox -e functional
```

An example test.conf file::

```conf
[functional]
api_version = 1
os_auth_url=http://192.168.0.2:5000/v2.0/
os_username=admin
os_password=admin
os_project_name=admin
```

If you are testing ironic in standalone mode, only the parameters 'auth_strategy', 'os_auth_token' and 'ironic_url' are required; all others will be ignored.

An example test.conf file for standalone host::

```conf
[functional]
auth_strategy = noauth
os_auth_token = fake
ironic_url = http://10.0.0.2:6385
```

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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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===============
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1.535 galera 25.3.16 3.el7ost

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1.536 postgresql-libs 9.2.24 1.el7_5
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<html><head>
<meta name="GENERATOR" content="Modular DocBook HTML Stylesheet Version 1.79">
<link rel="MADE" href="mailto:pgsql-docs@postgresql.org">
<link rel="HOME" title="PostgreSQL 8.4.22 Documentation" href="index.html">
<link rel="NEXT" title="Preface" href="preface.html">
<link rel="STYLESHEET" type="text/css" href="stylesheet.css">
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This patch contains several fixes to NetBSD's indent and should be applied before using pgindent.

Index: README
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/README,v
retrieving revision 1.1
diff -c -r1.1 README
*** README	9 Apr 1993 12:59:06 -0000	1.1
--- README	15 Nov 2005 00:25:43 -0000
***************
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
+
+ This is the C indenter, it originally came from the University of Illinois
via some distribution tape for PDP-11 Unix. It has subsequently been
hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
Index: indent_globs.h
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/indent_globs.h,v
retrieving revision 1.8
diff -c -r1.8 indent_globs.h
** #define STACK_SIZE 150

EXTERN struct parser_state {
    int last_token;
};

/* This controls the maximum number of 'else if' clauses supported.
 * If it is exceeded, comments are placed in column 100.
 */

/* define STACK_SIZE 1000

EXTERN struct parser_state {
    int last_token;
};

struct templ specials[1000] =
{
    "switch", 1,
    "case", 2,
};

struct templ specials[16384] =
{
    "switch", 1,
    "case", 2,
};
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
! return/* For now, table overflows are silently
! * ignored */
p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;
--- 622,632 ----
else
p++;
if (p >= specials + sizeof specials / sizeof specials[0])
! { !
! fprintf(stderr, "indent: typedef table overflow\n"); !
! exit(1); !
! }
! p->rwd = key;
p->rwcode = val;
p[1].rwd = 0;
Index: parse.c
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/parse.c,v
retrieving revision 1.7
diff -c -r1.7 parse.c
*** parse.c7 Aug 2003 11:14:09 -00001.7
--- parse.c15 Nov 2005 00:25:44 -0000
***************
*** 231,236 ****
--- 231,241 ----
}*/ end of switch */
+ if (ps.tos >= STACK_SIZE) {
+ fprintf(stderr, "indent: stack size overflow\n");
+ exit(1);
+ }
+ reduce();/* see if any reduction can be done */

#ifdef debug
Index: pr_comment.c
===================================================================
RCS file: /cvsroot/src/usr.bin/indent/pr_comment.c,v
retrieving revision 1.9
diff -c -r1.9 pr_comment.c
*** pr_comment.c7 Aug 2003 11:14:09 -00001.9
--- pr_comment.c 15 Nov 2005 00:25:44 -0000
***************
*** 148,154 ****
    ps.box_com = true;
    ps.com_col = 1;
} else {
!         if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '
') {
ps.box_com = true; /* a comment with a '-', '*',
* or newline immediately
* after the start comment is
--- 148,158 ----
    ps.box_com = true;
    ps.com_col = 1;
} else {
!         */
!         if (*buf_ptr == '-' || *buf_ptr == '*') {
ps.box_com = true; /* a comment with a '-', '*'
* or newline immediately
* after the start comment is
***************
*** 328,333 ****
--- 332,350 ----
goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == '
');
+
+ /*
+ */
+ + * If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ + if (s_com == e_com) {
+     *e_com++ = ' '; /* add blanks for continuation */
+     *e_com++ = ' ';
+     *e_com++ = ' ';
+     now_col += 3;
+ }
} else
if (++buf_ptr >= buf_end)
fill_buffer();
PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

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Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on stderr, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.
The function `PQsetNoticeReceiver` sets or examines the current notice receiver for a connection object. Similarly, `PQsetNoticeProcessor` sets or examines the current notice processor.

```c
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);
PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn, 
PQnoticeReceiver proc, 
void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);
PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn, 
PQnoticeProcessor proc, 
void *arg);
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is
When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `PGRES_NONFATAL_ERROR`.

The default notice receiver simply extracts the message (using `PQresultErrorMessage`) and passes it to the notice processor.
can be used to access application-specific state if needed.)
</p>
<p>
> The default notice processor is simply:
</p><pre class="programlisting">
static void defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
</pre>
<p></p>
<p>Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the
<tt class="structname">PGconn</tt> object or <tt class="structname">PGresult</tt> objects made from it exist. At creation of a <tt class="structname">PGresult</tt>, the <tt class="structname">PGconn</tt>'s current notice handling pointers are copied into the <tt class="structname">PGresult</tt> for possible use by functions like <tt class="function">PQgetvalue</tt>.</p>
<table>
<thead>
<tr>
<th>Miscellaneous Functions</th>
<th>Up</th>
<th>Next</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
*** bsd_indent/Makefile	Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/Makefile	Wed Oct 12 12:17:12 2011
***************
*** 2,10 ****
# Makefile
#
#
! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
# Makefile
#
#
! TARGET = pg_bsdIndent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
***************
*** 31,37 ****
clean:
rm -f *.o $(TARGET) log core

! install:
! make clean
! make CFLAGS=-O
  install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
rm -f *.o $(TARGET) log core

! install: $(TARGET)
install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/README Mon Nov 14 19:30:24 2005
**********************
*** 1,3 ****
--- 1,13 ----
+ + This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+ + bjm
+ + + ---------------------------------------------------------------
+ + +
+ + This is the C indenter, it originally came from the University of Illinois
via some distribution tape for PDP-11 Unix. It has subsequently been
hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c Wed Oct 26 17:16:56 2011
**********************
*** 83,88 ****
--- 83,90 ----
#include <string.h>
#include "indent_globs.h"

+ #define INDENT_PG_VERSION "1.1"
+ /* profile types */
#definePRO_SPECIAL /* special case */
#definePRO_BOOL /* boolean */
**********************
*** 99,106 ****
--- 101,113 ----
#defineSTDIN /* use stdin */
#defineKEY /* type (keyword) */
+ #defineKEY_FILE /* only used for args */
+ #define VERSION6 /* only used for args */
+ char *option_source = "?";

+ void add_typedefs_from_file(char *str);
+ /*
* N.B.: because of the way the table here is scanned, options whose names are
* substrings of other options must occur later; that is, with -lp vs -l, -lp

***************
*** 118,123 ****
--- 125,136 ----
  "T", PRO_SPECIAL, 0, KEY, 0
 }.
 {
+ "U", PRO_SPECIAL, 0, KEY_FILE, 0
+ },
+ {
+ "V", PRO_SPECIAL, 0, VERSION, 0
+ },
+ {
 "bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
 },
{
 ***************
*** 425,430 ****
--- 438,456 ----
}
break;

+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }
+ break;
+
default:
fprintf(stderr, "\nindent: set_option: internal error: p_special %d\n", p->p_special);
***************
*** 459,461 ****
--- 485,508 ----
exit(1);
}
}
+
+ void
```c
+ add_typedefs_from_file(char *str)
+ {
+     FILE *file;
+     char line[BUFSIZ];
+     
+     if ((file = fopen(param_start, "r")) == NULL) {
+         fprintf(stderr, "indent: cannot open file %s\n", str);
+         exit(1);
+     }
+     while ((fgets(line, BUFSIZ, file)) != NULL) {
+         /* Remove trailing whitespace */
+         *(line + strcspn(line, " 	\n\r")) = '\0';
+         addkey(strdup(line), 4);
+     }
+     fclose(file);
+ }
```

Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
Only in pg_bsd_indent: indent.o

diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
*** bsd_indent/indent_globs.h	Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h	Mon Nov 14 19:30:24 2005
***************
*** 239,245 ****
  scomf,/" Same line comment font */
  bodyf;/" major body font */

! #define STACK_SIZE 150

EXTERN struct parser_state {
    int last_token;
--- 239,249 ----
    scomf,/" Same line comment font */
    bodyf;/" major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000

EXTERN struct parser_state {
    int last_token;
```

Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
*** bsd_indent/lexi.c	Wed Oct 26 17:13:34 2011
```
--- pg_bsd_indent/lexi.c Mon Nov 14 19:30:24 2005
**************
*** 93,99 ****
  int rwcode;
};

! struct templ specials[1000] =
{    
    {"switch", 1},
    {"case", 2},
--- 93,99 ----
  int rwcode;
};

! struct templ specials[16384] =
{    
    {"switch", 1},
    {"case", 2},
**************
*** 622,629 ****
  else
  p++;
  if (p >= specials + sizeof specials / sizeof specials[0])
  ! return/*! For now, table overflows are silently
  ! * ignored */
  p->rwd = key;
  p->rwcode = val;
  p[1].rwd = 0;
--- 622,632 ----
  else
  p++;
  if (p >= specials + sizeof specials / sizeof specials[0])
  ! {
  ! printf(stderr, "indent: typedef table overflow\n");
  ! exit(1);
  ! }
  !
  p->rwd = key;
  p->rwcode = val;
  p[1].rwd = 0;
Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
*** bsd_indent/parse.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.c Mon Nov 14 19:30:24 2005
**************
*** 231,236 ****
--- 231,241 ----
} /* end of switch */

+ if (ps.tos >= STACK_SIZE) {
+     fprintf(stderr, "indent: stack size overflow\n");
+     exit(1);
+ }
+ reduce(); /* see if any reduction can be done */

#if define debug
Only in pg_bsd_indent: parse.o
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
*** bsd_indent/pr_comment.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005
***************
*** 148,154 ****
ps.box_com = true;
ps.com_col = 1;
} else {
+     if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '\n') {
+         ps.box_com = true; /* a comment with a '-', '*', '\n'
+     * or newline immediately
+     * after the start comment is
+     --- 148,158 ----
+     ps.box_com = true;
+     ps.com_col = 1;
+ } else {
+   */
+   * Don't process '\n' or every comment is treated as a
+   * block comment, meaning there is no wrapping.
+   */
+   if (*buf_ptr == '-' || *buf_ptr == '*') {
+       ps.box_com = true; /* a comment with a '-', '*'
+     * or newline immediately
+     * after the start comment is
+ ***************
*** 328,333 ****
--- 332,350 ----
goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == '	');
+
+ /* If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/\* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+   *e_com++ = ' ';/* add blanks for continuation */
+   *e_com++ = ' ';
+   *e_com++ = ' ';
+   now_col += 3;
+ } else
+   if (++buf_ptr >= buf_end)
+     fill_buffer();

Only in pg_bsd_indent: pr_comment.o

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PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)
Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on stderr, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.
sets or examines the current notice receiver for a connection object. Similarly, 

```c
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);
```

```c
PQnoticeReceiver PQsetNoticeReceiver(PGconn *conn, 
  PQnoticeReceiver proc, 
  void *arg);
```

sets or examines the current notice processor.

```c
typedef void (*PQnoticeProcessor) (void *arg, const char *message);
```

```c
PQnoticeProcessor PQsetNoticeProcessor(PGconn *conn, 
  PQnoticeProcessor proc, 
  void *arg);
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `PGRES_NONFATAL_ERROR`.
>PGresult</TT
>.

>(This allows the receiver to extract
individual fields using <CODE CLASS="FUNCTION">PQresultErrorField</CODE>,
or the complete
preformatted message using <CODE CLASS="FUNCTION">PQresultErrorMessage</CODE>.)
The same
void pointer passed to <CODE CLASS="FUNCTION">PQsetNoticeReceiver</CODE> is also
passed. (This pointer can be used to access application-specific state
if needed.)<P
><P
>   The default notice receiver simply extracts the message (using
<CODE CLASS="FUNCTION">PQresultErrorMessage</CODE>) and passes it to the notice
processor.<P
><P
>   The notice processor is responsible for handling a notice or warning
message given in text form. It is passed the string text of the message
(including a trailing newline), plus a void pointer that is the same
one passed to <CODE CLASS="FUNCTION">PQsetNoticeProcessor</CODE>.<P
><P
>   The default notice processor is simply:<P
><PRE CLASS="PROGRAMLISTING">
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
</PRE>
</P
><P
>   Once you have set a notice receiver or processor, you should expect
that that function could be called as long as either the
<TT CLASS="STRUCTNAME">PGconn</TT>
> object or <TT CLASS="STRUCTNAME">PGresult</TT>
> objects made
from it exist. At creation of a <TT CLASS="STRUCTNAME">PGresult</TT>
>, the
<TT CLASS="STRUCTNAME">PGconn</TT>
>'s current notice handling pointers are copied
into the <TT CLASS="STRUCTNAME">PGresult</TT>
> for possible use by functions like
<CODE CLASS="FUNCTION">PQgetvalue</CODE>
>.  
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1.538 python-ucssdk 0.8.3 5.el7_osp10.cisco

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1.539 openstack-neutron 12.1.1 18.el7ost

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@startuml
title live-migration with ovs-normal plug : nova<->neutron interactions

participant nova_conductor
participant nova_compute1
participant nova_compute2
participant neutron_server
participant neutron_l2_agent2
participant neutron_l2_agent1
participant neutron_l3_agent2

nova_conductor -> nova_compute1 : live_migrate
activate nova_compute1
nova_compute1 -> nova_compute2 : RPC.call : pre_live_migrate()
activate nova_compute2
nova_compute2 -> neutron_server : REST : list_port()
activate neutron_server
neutron_server -> nova_compute2
deactivate neutron_server

nova_compute2 -> nova_compute2 : plug_vifs()
nova_compute2 -> nova_compute1
deactivate nova_compute2

group proactive dvr router creation
nova_compute1 -> neutron_server : REST : update_port('binding-profile'=\{\'migrating_to\':\'host2\}\})
activate neutron_server
neutron_server -> neutron_i3_agent1 : RPC.cast(fanout) : port_update(port)
activate neutron_i3_agent1
destroy neutron_i3_agent1
note over neutron_i3_agent1
    "migrating_to" does not match host
end note
neutron_server -> neutron_i3_agent2 : RPC.cast(fanout) : port_update(port)
activate neutron_i3_agent2
note over neutron_i3_agent2
    proactively create DVR router
end note
deactivate neutron_i3_agent2
neutron_server -> nova_compute1
deactivate neutron_server
end

note over nova_compute1, nova_compute2
    libvirt handles the live-migration
end note

group port plugged on host2
    note over nova_compute2
        libvirt creates tap device
end note
neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_l2_agent2
activate neutron_server
neutron_server -> neutron_l2_agent2
deactivate neutron_server
neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
neutron_server -> neutron_l2_agent2
deactivate neutron_server
note over neutron_server
    port status is never changed since port is not bound to host2
end note
deactivate neutron_l2_agent2
end

group port unplugged on host1

    note over nova_compute1
        libvirt destroys the VM
and corresponding tap device
end note

neutron_l2_agent1 -> neutron_server : RPC.call : update_device_list(devices_down : [port])
activate neutron_l2_agent1
activate neutron_server
neutron_server -> neutron_server : update_port_status(DOWN)
neutron_server -> neutron_l2_agent1
deactivate neutron_l2_agent1
note over neutron_server
  port status changed to
  DOWN since port is bound
to host1
end note
deactivate neutron_server
end

note left of nova_compute1
  live migration
  succeeded
end note

nova_compute1 -> nova_compute1 : post_live_migration
nova_compute1 -> nova_compute1 : unplug_vifs()
nova_compute1 -> nova_compute2 : RPC.cast : post_live_migration_at_destination()
deactivate nova_compute1
activate nova_compute2
nova_compute2 -> neutron_server : REST : update_port({'binding:host_id':'host2', 'binding:profile':{}})
activate neutron_server
neutron_server -> neutron_server : update_port_status(DOWN)
neutron_server -> neutron_l2_agent1 : RPC.cast(fanout) : port_update(port)
activate neutron_l2_agent1
destroy neutron_l2_agent1
note over neutron_l2_agent1
  port not hosted
  on host1
end note

neutron_server -> neutron_l2_agent2 : RPC.cast(fanout) : port_update(port)
activate neutron_l2_agent2
neutron_server -> nova_compute2
deactivate nova_compute2
deactivate neutron_server

group port_update processed by agent that really hosts the port
  neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_server
neutron_server -> neutron_server : update_port_status(BUILD)
neutron_server -> neutron_l2_agent2
deactivate neutron_server
neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
neutron_server -> neutron_server : update_port_status(ACTIVE)
neutron_server -> neutron_l2_agent2
deactivate neutron_server
note over neutron_server
  port status changed to
  ACTIVE since port
  is now bound to host2
end note
deactivate neutron_l2_agent2
end group
@enduml

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@startuml

title live-migration with ovs-hybrid plug : nova<->neutron interactions

participant nova_conductor
participant nova_compute1
participant nova_compute2
participant neutron_server
participant neutron_l2_agent2
participant neutron_l2_agent1
participant neutron_l3_agent2
participant neutron_l3_agent1

nova_conductor -> nova_compute1 : live_migrate
activate nova_compute1

nova_compute1 -> nova_compute2 : RPC.call : pre_live_migrate()
activate nova_compute2

nova_compute2 -> neutron_server : REST : list_port()
activate neutron_server
deactivate neutron_server

neutron_server -> nova_compute2

neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_server
deactivate neutron_server

neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
deactivate neutron_server

group port plugged on host2

nova_compute2 -> nova_compute2 : plug_vifs()
activate neutron_l2_agent2

neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_server
deactivate neutron_server

neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
deactivate neutron_server

neutron_server -> neutron_l2_agent2
deactivate neutron_server
note over neutron_server
    port status is never
    changed since port
    is not bound to host2
end note
deactivate neutron_l2_agent2
end

nova_compute2 -> nova_compute1
deactivate nova_compute2

group proactive dvr router creation
    nova_compute1 -> neutron_server : REST : update_port('binding-profile'={'migrating_to':'host2'})
activate neutron_server
neutron_server -> neutron_l3_agent1: RPC.cast(fanout) : port_update(port)
activate neutron_l3_agent1
destroy neutron_l3_agent1
note over neutron_l3_agent1
    "migrating_to" does
    not match host
end note
neutron_server -> neutron_l3_agent2: RPC.cast(fanout) : port_update(port)
activate neutron_l3_agent2
note over neutron_l3_agent2
    proactively create DVR router
end note
deactivate neutron_l3_agent2
neutron_server -> nova_compute1
deactivate neutron_server
end

note over nova_compute1, nova_compute2
    libvirt handles the live-migration
end note
note left of nova_compute1
    live migration
    succeeded
end note

nova_compute1 -> nova_compute1 : post_live_migration
    group port unplugged on host1
        nova_compute1 -> nova_compute1 : unplug_vifs()
        activate neutron_l2_agent1
        neutron_l2_agent1 -> neutron_server : RPC.call : update_device_list(devices_down : [port])
        activate neutron_server
        neutron_server -> neutron_server : update_port_status(DOWN)
        neutron_server -> neutron_l2_agent1
deactivate neutron_l2_agent1
note over neutron_server
  port status changed to
  DOWN since port is bound
  to host1
end note
deactivate neutron_server
end

nova_compute1 -> nova_compute2 : RPC.cast : post_live_migration_at_destination()
deactivate nova_compute1
activate nova_compute2

nova_compute2 -> neutron_server : REST : update_port({'binding:host_id':'host2', 'binding:profile':{}})
activate neutron_server

neutron_server -> neutron_server : update_port_status(DOWN)

neutron_server -> neutron_l2_agent1 : RPC.cast(fanout) : port_update(port)
activate neutron_l2_agent1

destroy neutron_l2_agent1

note over neutron_l2_agent1
  port not hosted
  on host1
end note

neutron_server -> neutron_l2_agent2 : RPC.cast(fanout) : port_update(port)
activate neutron_l2_agent2
neutron_server -> nova_compute2
deactivate nova_compute2
deactivate neutron_server

group port_update processed by agent that really hosts the port
neutron_l2_agent2 -> neutron_server : RPC.call : get_devices_details_list_and_failed_devices(devices : [port])
activate neutron_server
neutron_server -> neutron_server : update_port_status(BUILD)
neutron_server -> neutron_l2_agent2
deactivate neutron_server

neutron_l2_agent2 -> neutron_server : RPC.call : update_device_list(devices_up : [port])
activate neutron_server
neutron_server -> neutron_server : update_port_status(ACTIVE)
neutron_server -> neutron_l2_agent2
deactivate neutron_server

note over neutron_server
  port status changed to
  ACTIVE since port
  is now bound to host2
end note
deactivate neutron_l2_agent2
end group
1.540 prometheus-alertmanager 0.15.3

1.540.1 Available under license:

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http://github.com/gogo/protobuf

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.541 perl-file-path 2.09 2.el7

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Included for the use of the fix_strcasecmp.c module which works around a Solaris problem.

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profs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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tomb - support for clean goroutine termination in Go.

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1.552 davecgh-go-spew v1.1.1 8991bc2

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That's all there is to it!

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1.571 ipvsadm 1.27 7.el7

1.571.1 Available under license:

ipvsadm - Version 1.14 - 11th January 2001

This is free software. See below for details.
ipvsadm is a utility to administer the IP virtual server services offered by the Linux kernel with IP virtual server support.

This version of ipvsadm requires IPVS module v0.0.5 for kernel 2.4 or later. Check out the Linux Virtual Server Project home page on the World Wide Web:
http://www.LinuxVirtualServer.org/
or
http://www.Linux-VS.org/ for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and "make menuconfig" or "make xconfig" to setup the right compiling options, see the README of the virtual server patch for detail, then simply type make in the source directory.

Install to your liking. We suggest the following pathnames:
/sbin/ipvsadm
/usr/man/man8/ipvsadm.8
This will be done automatically when calling make install in the source directory.

Wensong Zhang <wensong@linuxvirtualserver.org>

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

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1.572 patch 2.7.1 11.el7_6

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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
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form of a work.

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The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
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control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
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1.582 expat 2.2.0-2+deb9u3.debian

1.582.1 Available under license:

This is the Debian package of expat, the C library for parsing XML.

The source package was downloaded from <URL:http://expat.sourceforge.net>.

The original packager is Adam Di Carlo <aph@debian.org>, later Ardo van Rangelrooij <ardo@debian.org> maintained the package. Now Laszlo Boszormenyi (GCS) <gcs@debian.org> looks after it.

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1.583 python-inotify 0.9.4 4.el7

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1.584 python-kazoo 2.2.1 1.el7ost

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1.585 python-nose 1.3.7 1.el7

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That's all there is to it!

1.586 python-weakrefmethod 1.0.2 3.el7ost
1.586.1 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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1.587 grep 2.20 3.el7

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1.589 zope-interface 4.0.5 4.el7

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1.590 adduser 3.115

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
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=== end of license ===

Note:

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

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

- 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.

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- 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* *Kibaale* *charity*

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

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.
The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

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

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

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

*donate*

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

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

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.
How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

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

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

Sending money:*iccf-donations*

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

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

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

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74
Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

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

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

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

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

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

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

vim:tw=78:ts=8:ft=help:norl:
" Vim syntax file
" Language:Software Distributor product specification file
"POSIX 1387.2-1995).  
" Maintainer: Rex Barzee <rex_barzee@hp.com>  
" Last change: 25 Apr 2001

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
elseif 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 filespec 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 "\<[a-zA-Z]+\|[a-zA-Z]+\>\[a-zA-Z]+\]" contained
syn match  psfObjTags  "\<-\+[A-Z0-9a-z]+\(\+[A-Z0-9a-z]+\)+\(\<\|\>|\<=\|\>=\|\==\)\[^,\[a-zA-Z]+\]*\)*" contained
syn match  psfNumber    "\d+" contained
syn match  psfFloat     "\d+\.(\d+)*" contained
syn match  psfLongDate  "\d{10}" 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

syn region psfAttTags matchgroup=psfAttrib start="^\s*all_filesets\s\+" contains=psfObjTags,psfComment end="$" keepend

syn region psfAttNumber matchgroup=psfAttrib
start="^\s*\(compressed_size|instance_id|media_sequence_number|sequence_number|size\)\s\+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib
start="^\s*\(create_time|ctime|mod_time|mtime|timestamp\)\s\+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib
start="^\s*\(data_model_revision|layout_version\)\s\+" contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib
start="^\s*install_date\s\+" contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib
start="^\s*\(state\)\s\+" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib
start="^\s*\(patch_state\)\s\+" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start="^\s*\(is_kernel|is_locatable|is_patch|is_protected|is_reboot|is_reference|is_secure|is_sparse\)\s\+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match  psfComment ".*$

" 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

HiLink psfComment   Comment
delcommand HiLink
endif

" 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.
syn sync lines=100

let b:current_syntax = "psf"

1.592 gnocchi-api 4.2.5 4.el7ost
1.592.1 Available under license :

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1.593 python-cloudpulseclient 5.1.2
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1.598 spf13-jwalterweatherman v1.1.0 94f6ae3

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1.3.1.0 1.el7ost

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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
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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.

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@appendixsubsec 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.

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

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

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

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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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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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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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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.

@item
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.

@item
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.

@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.

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.

@item
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:

@enumerate 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.

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 enumerate

@ifex
@end iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@end ifinfo
@page
@appendixsubsec 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.

@example
@example
\begin{verbatim}
\copyright \{one line to give the library's name and an idea of what it does.\}
Copyright (C) \{year\} \{name of author\}
\end{verbatim}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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@example

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:
@example
@example
\begin{verbatim}
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.
\copyright \{signature of Ty Coon\}, 1 April 1990
Ty Coon, President of Vice
\end{verbatim}

That's all there is to it!

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Version 2, June 1991

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Open Source Used In Cisco VIM 3.4.6 6484
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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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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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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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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.

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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.

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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.

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.
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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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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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!
BEGIN{
FS="";
print "/* ==> Do not modify this file!! */";
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";
  }
else if ($0 !~ /^/[ ]*15\. Disclaimer of Warranty\/[ ]*$/)
  {
    printf " printf_filtered (";
    for (i = 1; i < NF; i++)
printf "%s\", $i;
    printf "%s\n\n", $NF;
  }
} /*[ ]*15\. Disclaimer of Warranty\/[ ]*$/
print ");";
print "";
print "static void";
print "show_warranty_command (char *ignore, int from_tty);"
print "{";
}
/*[ ]*15\. Disclaimer of Warranty\/[ ]*$/
if (! ($0 ~ /\$/)
  {
    printf " printf_filtered (";
    for (i = 1; i < NF; i++)
printf "%s\", $i;
    printf "%s\n\n", $NF;
  }
}
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Version 3, 29 June 2007

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A "Combined Work" is a work produced by combining or linking an
Application with the Library.  The particular version of the Library

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 ""
  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 "  }";
}
with which the Combined Work was made is also called the "Linked Version".

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<one line to give the program's name and a brief idea of what it does.>
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<one line to give the program's name and a brief idea of what it does.>
#! /usr/bin/env python
# Copyright (C) 2011-2013 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
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#
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# along with this program. If not, see <http://www.gnu.org/licenses/>.
"""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
the files are relative to that root directory.
"""
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
for root, dirs, files in os.walk(gdb_dir, topdown=True):

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

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
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    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 ():
    """The main subprogram."""
    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)

# Remind the user that some files need to be updated by HAND...
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

############################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################

# 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/gdb.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",
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/id-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/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_redo_stack.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.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/decode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/id-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",}
if __name__ == '__main__':
    main()
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9.el7fdp

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# PC Screen (console) Fonts - psf1 header
#
0       leshort         0x0436          psf screen font data
>2      byte            0               256 characters, no index
>2      byte            1               512 characters, no index
>2	byte		2		256 characters, Unicode index
>2	byte		3		512 characters, Unicode index
>2	byte		4		256 characters, Unicode level 2 index
>2	byte		5		512 characters, Unicode level 2 index
>3	byte		x		8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0       lelong		0x864ab572	psf2 screen font data
>12	lelong&1	1		with Unicode index
>16	lelong		x		b, %d glyphs
>28	lelong		x		b%d
>36	lelong		x		b	f
rJ
1.625 python-warlock 1.0.1 1.el7ost

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From 9a95de08eb49f10c0a342099826d5e4c445749aa Mon Sep 17 00:00:00 2001
From: Mohit Agrawal <moagrawa@redhat.com>
Date: Thu, 31 May 2018 12:29:35 +0530
Subject: [PATCH 313/325] dht: Inconsistent permission for directories after brick stop/start

Problem: Inconsistent access permissions on directories after bringing back the down sub-volumes, in case of directories dht_setattr first wind a call on MDS once call is finished on MDS then wind a call on NON-MDS. At the time of revalidating dht just compare the uid/gid with stbuf uid/gid and if anyone differs set a flag to heal the same.

Solution: Add a condition to compare permission also in dht_revalidate_cbk to set a flag to call dht_dir_attr_heal.

> BUG: 1584517
> Change-Id: I3e039607148005015b5d93364536158380d4c5aa
> fixes: bz#1584517
> (cherry picked from commit e57cbea0b0c3d8649b869eda5ec20f3c6a6d34f0)
> (Reviewed on upstream link https://review.gluster.org/#/c/20109/)

BUG: 1582066
Change-Id: 1985445521aeeddce52c0a56c20287e523aa3398b
Signed-off-by: Mohit Agrawal <moagrawa@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/143721
Tested-by: RHGS Build Bot <nigelb@redhat.com>
Reviewed-by: Sunil Kumar Heggodu Gopala Acharya <sheggodu@redhat.com>

---
tests/bugs/bug-1584517.t               | 70 ++++++++++++++++++++++++++++++++
xlators/cluster/dht/src/dht-common.c | 81 +++++++++++++++++++++++++++++++++++++--.
xlators/cluster/dht/src/dht-common.h | 3 ++
xlators/cluster/dht/src/dht-selfheal.c | 2 +
4 files changed, 147 insertions(+), 9 deletions(-)
create mode 100644 tests/bugs/bug-1584517.t
diff --git a/tests/bugs/bug-1584517.t b/tests/bugs/bug-1584517.t
new file mode 100644
index 00000000..7f48015
--- /dev/null
+++ b/tests/bugs/bug-1584517.t
@@ -0,0 +1,70 @@
#!/bin/bash
. $(dirname $0)/..include.rc
. $(dirname $0)/..volume.rc
. $(dirname $0)/..dht.rc
+ cleanup;
+ This test case verifies attributes (uid/gid/perm) for the
directory are healed after stop/start brick. To verify the same
test case change attributes of the directory after down a DHT subvolume
and one AFR children. After start the volume with force and run lookup
operation attributes should be healed on started bricks at the backend.
+
+TEST glusterd
+TEST pidof glusterd
+TEST $CLI volume create $V0 replica 3 $H0:$B0/$V0{0,1,2,3,4,5}
+TEST $CLI volume start $V0
+TEST useradd dev -M
+TEST groupadd QA
+
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+
+TEST mkdir $M0/dironedown
+
+TEST kill_brick $V0 $H0 $B0/$V0{2}
+EXPECT_WITHIN $(PROCESS_UP_TIMEOUT) "5" online_brick_count
+
+TEST kill_brick $V0 $H0 $B0/$V0{3}
+EXPECT_WITHIN $(PROCESS_UP_TIMEOUT) "4" online_brick_count
+
+TEST kill_brick $V0 $H0 $B0/$V0{4}
+EXPECT_WITHIN $(PROCESS_UP_TIMEOUT) "3" online_brick_count
+
+TEST chown dev $M0/dironedown
+TEST chgrp QA $M0/dironedown
+TEST chmod 777 $M0/dironedown
+
+#store the permissions for comparision
+permission_onedown=`ls -l $M0 | grep dironedown | awk '{print $1}'`
+
+TEST $CLI volume start $V0 force
+EXPECT_WITHIN $(PROCESS_UP_TIMEOUT) "6" online_brick_count
+
+TEST glusterfs --volfile-id=$V0 --volfile-server=$H0 $M0;
+
+#Run lookup two times to hit revalidate code path in dht
+## to heal user attr
+
+##check attributes those were created post brick going down
+TEST brick_perm=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $1}'`
+TEST echo $brick_perm
+TEST [ $brick_perm = ${permission_onedown} ]
+uid=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $3}'`
+TEST echo $uid
+TEST [ $uid = dev ]
+gid=`ls -l $B0/${V0}3 | grep dironedown | awk '{print $4}'`
+TEST echo $gid
+TEST [ $gid = QA ]
+
+umount $M0
+userdel --force dev
+groupdel QA
+
+cleanup
+exit
+
+diff --git a/xlators/cluster/dht/src/dht-common.c b/xlators/cluster/dht/src/dht-common.c
+index c6adce4..23049b6 100644
--- a/xlators/cluster/dht/src/dht-common.c
+++ b/xlators/cluster/dht/src/dht-common.c
@@ -1329,6 +1329,8 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
     char          gfid_local[GF_UUID_BUF_SIZE] = {0};
     char          gfid_node[GF_UUID_BUF_SIZE]  = {0};
     int32_t       mds_xattr_val[1]                 = {0};
+        call_frame_t *copy                         = NULL;
+        dht_local_t  *copy_local                   = NULL;

     GF_VALIDATE_OR_GOTO ("dht", frame, out);
     GF_VALIDATE_OR_GOTO ("dht", this, out);
@@ -1401,6 +1403,23 @@ dht_lookup_dir_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
                             dht_aggregate_xattr (local->xattr, xattr);
                     }
+
+    if (dict_get (xattr, conf->mds_xattr_key)) {
+        local->mds_subvol = prev;
+        local->mds_stbuf.ia_gid = stbuf->ia_gid;
+        local->mds_stbuf.ia_uid = stbuf->ia_uid;
+        local->mds_stbuf.ia_prot = stbuf->ia_prot;
+    }
+
+    if (local->stbuf.ia_type != IA_INVAL) {
+        if (!__is_root_gfid (stbuf->ia_gfid) &&


((local->ia_stbuf.ia_gid != stbuf->ia_gid) ||
 + (local->ia_stbuf.ia_uid != stbuf->ia_uid) ||
 + (is_permission_different (&local->stbuf.ia_prot,
 + &stbuf->ia_prot))) {  
    local->need_attrheal = 1;
    }
    }
    
    if (local->inode == NULL)
local->inode = inode_ref (inode);

@@ -1496,6 +1515,43 @@ unlock:

    &local->postparent, 1);

    }
    
    if (local->need_attrheal) {
    local->need_attrheal = 0;
    + if (!is_root_gfid (inode->gfid)) {
    +     gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
    +     local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
    +     local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
    +     local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
    +   }
    
    copy = create_frame (this, this->ctx->pool);
    + if (copy) {
    +     copy_local = dht_local_init (copy, &local->loc,
    +         NULL, 0);
    +     if (!copy_local) {
    +         DHT_STACK_DESTROY (copy);
    +         goto skip_attr_heal;
    +     }
    +     copy_local->stbuf = local->stbuf;
    +     copy_local->mds_stbuf = local->mds_stbuf;
    +     copy_local->mds_subvol = local->mds_subvol;
    +     copy->local = copy_local;
    +     FRAME_SU_DO (copy, dht_local_t);
    +     ret = synctask_new (this->ctx->env,
    +         dht_dir_attr_heal,
    +         dht_dir_attr_heal_done,
    +         copy, copy);
    +     if (ret) {
    +         gf_msg (this->name, GF_LOG_ERROR, ENOMEM,
    +             DHT_MSG_DIR_ATTR_HEAL_FAILED,
    +             "Synctask creation failed to heal attr ",
    +             "for path %s gfid %s ",
    +             local->loc.path, local->gfid);
    +         DHT_STACK_DESTROY (copy);
    +     }
    }
+
}
+
}
+
+skip_attr_heal:
DHT_STRIP_PHASE1_FLAGS (&local->stbuf);
dht_set_fixed_dir_stat (&local->postparent);
/* Delete mds xattr at the time of STACK UNWIND */
@@ -1516,7 +1572,7 @@ out:
return ret;
}
-int static
+int
is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2)
{
if ((prot1->owner.read != prot2->owner.read) ||
@@ -1677,12 +1733,12 @@ dht_revalidate_cbk (call_frame_t *frame, void *cookie, xlator_t *this,
{
if ((local->stbuf.ia_gid != stbuf->ia_gid) ||
(local->stbuf.ia_uid != stbuf->ia_uid) ||
(__is_root_gfid (stbuf->ia_gfid) &&
is_permission_different (&local->stbuf.ia_prot,
&stbuf->ia_prot))) {
+
&stbuf->ia_prot)) {
local->need_selfheal = 1;
}
}
+
if (!dict_get (xattr, conf->mds_xattr_key)) {
gf_msg_debug (this->name, 0,
"internal xattr %s is not present"
@@ -1828,10 +1884,9 @@ out:
local->need_selfheal = 0;
if (!__is_root_gfid (inode->gfid)) {
gf_uuid_copy (local->gfid, local->mds_stbuf.ia_gfid);
if (local->mds_stbuf.ia_gid || local->mds_stbuf.ia_uid) {
local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
}
+
local->stbuf.ia_gid = local->mds_stbuf.ia_gid;
+
local->stbuf.ia_uid = local->mds_stbuf.ia_uid;
+
local->stbuf.ia_prot = local->mds_stbuf.ia_prot;
} else {
gf_uuid_copy (local->gfid, local->stbuf.ia_gfid);
local->stbuf.ia_gid = local->prebuf.ia_gid;
@@ -1843,8 +1898,10 @@ out:
if (copy) {
copy_local = dht_local_init (copy, &local->loc,

Open Source Used In Cisco VIM 3.4.6 6600


if (!copy_local)
    DHT_STACK_DESTROY (copy);
    goto cont;
+
    if (!copy_local) {
      
      copy_local->stbuf = local->stbuf;
      copy_local->mds_stbuf = local->mds_stbuf;
      copy_local->mds_subvol = local->mds_subvol;
      
      @@ -1854,6 +1911,14 @@ out:
         dht_dir_attr_heal,
         dht_dir_attr_heal_done,
         copy, copy);
      +
      +      if (ret) {
      +          gf_msg (this->name, GF_LOG_ERROR, ENOMEM,
      +              DHT_MSG_DIR_ATTR_HEAL_FAILED,
      +              "Synctask creation failed to heal attr ",
      +              "for path %s gfid %s ",
      +              local->loc.path, local->gfid);
      +      
      +      DHT_STACK_DESTROY (copy);
      +    }
      }
      
    cont:
  }
  
  diff --git a/xlators/cluster/dht/src/dht-common.h b/xlators/cluster/dht/src/dht-common.h
  index a70342f..b40815c 100644
  --- a/xlators/cluster/dht/src/dht-common.h
  +++ b/xlators/cluster/dht/src/dht-common.h
  @@ -298,6 +298,7 @@ struct dht_local {
      xlator_t *mds_subvol; /* This is use for dir only */
      char need_selfheal;
      char need_xattr_heal;
      +      char need_attrheal;
      int file_count;
      int dir_count;
      call_frame_t *main_frame;
  @@ -1491,4 +1492,6 @@ int
dht_selfheal_dir_setattr (call_frame_t *frame, loc_t *loc, struct iatt *stbuf,
      int32_t valid, dht_layout_t *layout);

  +is_permisison_different (ia_prot_t *prot1, ia_prot_t *prot2);
  
  #endif /* _DHT_H */
  
  diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
  index e9b1db9..035a709 100644
  --- a/xlators/cluster/dht/src/dht-selfheal.c
  +++ b/xlators/cluster/dht/src/dht-selfheal.c
  @@ -2495,7 +2495,7 @@ int
dht_selfheal_dir_setattr (call_frame_t *frame, loc_t *loc, struct iatt *stbuf,
      int32_t valid, dht_layout_t *layout);

  +int
diff --git a/xlators/cluster/dht/src/dht-selfheal.c b/xlators/cluster/dht/src/dht-selfheal.c
  index e9b1db9..035a709 100644
  --- a/xlators/cluster/dht/src/dht-selfheal.c
  +++ b/xlators/cluster/dht/src/dht-selfheal.c
  @@ -2495,7 +2495,7 @@ int
dht_selfheal_dir_setattr (call_frame_t *frame, loc_t *loc, struct iatt *stbuf,
      int32_t valid, dht_layout_t *layout);

  +int
  +is_permission_different (ia_prot_t *prot1, ia_prot_t *prot2);
null, null, null, null);

} else {
    ret = syncop_setattr (subvol, &local->loc, &local->mds_stbuf,
                        (GF_SET_ATTR_UID | GF_SET_ATTR_GID),
                        (GF_SET_ATTR_UID | GF_SET_ATTR_GID | GF_SET_ATTR_MODE),
                        NULL, NULL, NULL, NULL);
}

--
1.8.3.1
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From 0b7fa3bddd3334c70d99d1a1b99c3e37d49fc66e3 Mon Sep 17 00:00:00 2001
From: Atin Mukherjee <amukherj@redhat.com>
Date: Mon, 12 Mar 2018 19:47:11 +0530
Subject: [PATCH 184/201] cli/glusterfsd: remove copyright information

There's no point of dumping upstream copyright information in --version.

Label: DOWNSTREAM ONLY

Change-Id: I3a10e30878698e1d53082936bbf22bca560a3896
BUG: 1550474
Signed-off-by: Atin Mukherjee <amukherj@redhat.com>
Reviewed-on: https://code.engineering.redhat.com/gerrit/132445
Tested-by: RHGS Build Bot <nigelb@redhat.com>
Reviewed-by: Milind Changire <mchangir@redhat.com>

---
cli/src/cli.c               | 10 +---------
glusterfsd/src/glusterfsd.c | 10 +---------
2 files changed, 2 insertions(+), 18 deletions(-)

diff --git a/cli/src/cli.c b/cli/src/cli.c
index ce06366..52c1b67 100644
--- a/cli/src/cli.c
+++ b/cli/src/cli.c
@@ -66,15 +66,7 @@ extern int connected;
/* using argp for command line parsing */

const char *argp_program_version = ""
  - "\"PACKAGE_NAME\" "PACKAGE_VERSION"
  - "\"Repository revision: " GLUSTERFS_REPOSITORY_REVISION "\n"
  - "\"Copyright (c) 2006-2016 Red Hat, Inc. "
  - "<https://www.gluster.org/>\n"
  - "GlusterFS comes with ABSOLUTELY NO WARRANTY.\n"
  - "It is licensed to you under your choice of the GNU Lesser\n"
  - "General Public License, version 3 or any later version (LGPLv3)\n"
  - "or later), or the GNU General Public License, version 2 (GPLv2)\n"
  - "in all cases as published by the Free Software Foundation."
  + "PACKAGE_NAME" "PACKAGE_VERSION;"
const char *argp_program_bug_address = "<" PACKAGE_BUGREPORT ">";

struct rpc_clnt *global_quotad_rpc;

diff --git a/glusterfsd/src/glusterfsd.c b/glusterfsd/src/glusterfsd.c
index eeffdc5..38b863c 100644
--- a/glusterfsd/src/glusterfsd.c
+++ b/glusterfsd/src/glusterfsd.c
@@ -87,15 +87,7 @@ static char gf_doc[] = ""
static char argp_doc[] = "--volfile-server=SERVER [MOUNT-POINT]\n"

const char *argp_program_version = ""
  - "\"PACKAGE_NAME\" "PACKAGE_VERSION"
  - "\"Repository revision: " GLUSTERFS_REPOSITORY_REVISION "\n"
  - "\"Copyright (c) 2006-2016 Red Hat, Inc. "
  - "<https://www.gluster.org/>\n"
  - "GlusterFS comes with ABSOLUTELY NO WARRANTY.\n"
  - "It is licensed to you under your choice of the GNU Lesser\n"
  - "General Public License, version 3 or any later version (LGPLv3)\n"
  - "or later), or the GNU General Public License, version 2 (GPLv2)\n"
  - "in all cases as published by the Free Software Foundation."
  + "PACKAGE_NAME" "PACKAGE_VERSION;"
const char *argp_program_bug_address = "<" PACKAGE_BUGREPORT ">";
static error_t parse_opts (int32_t key, char *arg, struct argp_state *state);
--
1.8.3.1

1.633 minitest 5.11.3
1.633.1 Available under license:
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1.634 elasticsearch-api 6.1.0
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1.635 rabbitmq-server 3.6.15 6.el7ost
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   JMS Client for Pivotal RabbitMQ 1.4.6 GA

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amqp-client-3.5.6-sources.jar\com\rabbitmq\tools\json\JSONWriter.java

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amqp-client-3.5.6-sources.jar\com\rabbitmq\client\impl\VariableLinkedBlockingQueue.java

/*
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 */
/*
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 * Expert Group and released to the public domain, as explained at
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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
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1.641 cryptsetup 2.0.3 3.el7
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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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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.

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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 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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

1.645 libcgroup 0.41 20.el7
1.645.1 Available under 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.

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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 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
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changes were used in the work (which must be distributed under
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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.)

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
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materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the 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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   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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1.649 python-websocket-client 0.56.0

3.git3c25814.el7

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1.651 coreutils 8.26-3.debian
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This package is maintained by Michael Stone <mstone@debian.org> and built from sources obtained from:

This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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util/unlink.py
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backport frop python3 Lib/test/support.py

gunicorn/selectors.py
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1.656 kubernetes 1.10.0

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1.658 perl 5.16.3 294.el7_6

1.658.1 Available under license:

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

plan 'no_plan';

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

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

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

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

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

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/", 
    "META license URL is correct"
);

}

{

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

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

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

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/", 
    "META license URL is correct"
);

}
# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

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

From f5488561bdaab2bf30bf07e8e66778503a41a3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3

---
hv.c | 6 ++++++
sv.c | 7 ++++-
t/op/svleak.t | 22 +++++++++++++++++++++-
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const I32 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);
+ENTER;
+SvREFCNT_inc_simple_void_NN(hv);
+while (hv_max && hv_max + 1 >= hv_fill * 2)
+ hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 }
HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
 }
 hv_magic(hv, NULL, PERL_MAGIC_hints);
 return hv;

diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644

--- /dev/null
+++ /dev/null
@@ -0,0 +1,7 @@
      /dev/null

+@ -8764,11 +8764,12 @ @ Perl_newSVv(pTHX_ register SV *const old)
Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
return NULL;
+
+    /* Do this here, otherwise we leak the new SV if this croaks. */
+    SvGETMAGIC(old);
+    new_SV(sv);

-    /* SV_GMAGIC is the default for sv_setsv()
-     * SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
-     * SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
-     * with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
-    sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+    sv_setsv_flags(sv, old, SV_NOSTEAL);

return sv;

--- /dev/null
+++ /dev/null
@@ -0,0 +1,7 @@
      /dev/null

+diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
-    plan tests => 23;
-    or skip_all("XS::APItest not available");
+    plan tests => 24;

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
    each %$h;
    undef $h;
+}, 'tied hash iteration does not leak');
+
+    # [perl #107000]
+    package hhtie {
+        sub TIEHASH { bless [] }
+        sub STORE    { $_[0][0]{$_[1]} = $_[2] }
+        sub FETCH    { die if $explosive; $_[0][0]{$_[1]} }
+        sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }
+        sub NEXTKEY  { each %{$_[0][0]} }
+    }
+    leak(2,!!$Config{mad}, sub {
+        eval q`
+            BEGIN {
+                $hhtie::explosive = 0;
+            }';

--- /dev/null
+++ /dev/null
@@ -0,0 +1,7 @@
      /dev/null

+diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
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    }', 'tied hash iteration does not leak');
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+    # [perl #107000]
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+        sub TIEHASH { bless [] }
+        sub STORE    { $_[0][0][$_[1]] = $_[2] }
+        sub FETCH    { die if $explosive; $_[0][0][$_[1]] }
+        sub FIRSTKEY { keys @{$_[0][0]}; each @{$_[0][0]} }
+        sub NEXTKEY  { each @{$_[0][0]} }
+    }
+    leak(2,!!$Config{mad}, sub {
+        eval q`
+            BEGIN {
+                $hhtie::explosive = 0;
+            }';

--- /dev/null
+++ /dev/null
@@ -0,0 +1,7 @@
      /dev/null

+diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
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+    # [perl #107000]
+    package hhtie {
+        sub TIEHASH { bless [] }
+        sub STORE    { $_[0][0][$_[1]] = $_[2] }
+        sub FETCH    { die if $explosive; $_[0][0][$_[1]] }
+        sub FIRSTKEY { keys @{$_[0][0]}; each @{$_[0][0]} }
+        sub NEXTKEY  { each @{$_[0][0]} }
+    }
+    leak(2,!!$Config{mad}, sub {
+        eval q`
+            BEGIN {
+                $hhtie::explosive = 0;
+            }';
+    tie %{H, hhtie;
+    $^H{foo} = bar;
+    $hhtie::explosive = 1;
+    }
+    	{ 1; }
+    	}, 'hint-hash copying does not leak');
--
1.8.1.4

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'"
built requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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(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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   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.
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o liblua: Lua programming language. Lua is the implementation language
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running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
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- 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/

- LIBLINEAR. Used for IPv6 OS classification.
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- libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

- zlib and bzip2: compression libraries.

- Expat: XML parser library.
http://expat.sourceforge.net/

- fontconfig: font configuration library.
http://www.fontconfig.org/

- FreeType: font rendering library.
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o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
   http://www.x.org/ http://www.macports.org/

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- Jens Rantil, 2011-11-27
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- Philip Zeyliger, 2012-02-21
- Marcelo Vanzin, 2012-05-03
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1.672 screen 4.1.0 0.25.20120314git3c2946.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 (see
http://www.digicoool.com). In 2001, the Python Software Foundation
(PSF, see http://www.python.org/psf/) was formed, a non-profit
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All Python releases are Open Source (see http://www.opensource.org for
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<th>Owner</th>
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2.0 1.6 2000 BeOpen.com no
1.6.1 1.6 2001 CNRI no
2.1 2.0+1.6.1 2001 PSF no
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2.1.1 2.1+2.0.1 2001 PSF yes
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1.680 python2-oslo-config 5.2.1 2.el7ost

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1.681 sg3-utils 1.37 17.el7_6.2

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1.682 python-xstatic-jquery 1.10.2.1 1.el7ost

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1.687 python2-fixtures 3.0.0 7.el7ost

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1.690 pip 10.0.1

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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### 1.704 python-xstatic-objectpath 1.2.1.0

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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
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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
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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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1.710 python-urlgrabber 3.10 9.el7

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

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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
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5. A program that contains no derivative of any portion of the
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1.712 python-xstatic-jquery-quicksearch

2.0.3.1 2.el7ost

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1.713 python2-ovsdbapp 0.10.4 2.el7ost

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- uuid (f587686c1a77e77a3b0d49e98c8dd21419399b6a3)

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### Details

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1.722 cryptography 2.5

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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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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.

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 * Dibbler - a portable DHCPv6
 *
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 * changes: Paul Schauer <p.schauer(at)comcast(dot)net>
 *
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 *
 * $Id: daemon.h,v 1.3 2009-04-19 21:37:44 thomson Exp $
 *
 */

#ifndef DAEMON_H
#define DAEMON_H

#ifndef SIGTERM
#define SIGTERM 15
#endif

#ifndef SIGINT
#define SIGINT 2
#endif

int start(const char * pidfile, const char * workdir);
int stop(const char * pidfile);
int init(const char * pidfile, const char * workdir);
int getPID(char * pidfile);
int getServerPID();
int getClientPID();
int getRelayPID();
int die(const char * pidfile);

void logStart(const char * note, const char * logname, const char * logfile);
void logEnd();

#endif

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libLowLevel_a_CFLAGS = -std=c99
libLowLevel_a_CPPFLAGS = -I$(top_srcdir)/Misc

libLowLevel_a_SOURCES = daemon.cpp daemon.h lowlevel-bsd.c lowlevel-options-bsd.c malloc.h dibbler-client.cpp dibbler-server.cpp dibbler-relay.cpp
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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

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

2e1cee529cb59c9341aef0443f196a1 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   [fsize 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   [fsize 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):
1.749 python-iso8601 0.1.11 1.el7ost

1.749.1 Available under license:
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1.750 libfontenc 1.1.3 3.el7

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

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httplib2 - MIT License

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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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

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Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
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"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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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
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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

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1.769 scl-utils 20130529 19.el7

1.770 lm-sensors-libs 3.4.0

6.20160601gitf9185e5.el7

1.770.1 Available under license:

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

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

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1.771 elfutils-default-yama-scope 0.172

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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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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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   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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<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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Copyright information:

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

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

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

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.
[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

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

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

-- Nathan
=20
-----------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> 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...
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isn't 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
> =20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

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

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

thus LGPL-2.1 enters to fill this void.

-mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

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

I am sympathetic. Guys, what do you reckon?

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

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

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

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

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

- Mike

---

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

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

yes, go for it. thanks++

-a

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

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

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

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

---

Open Source Used In Cisco VIM 3.4.6  8829
> yes. go for it. thanks++

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

----------
BElOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO gpl FROM Artistic.
----------

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11CocX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
    Mime-Version: 1.0 (Apple Message framework v752.2)
    In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
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
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

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries 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

On Monday 01 October 2007, Neulinger, Nathan wrote:
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the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

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

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
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> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> 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
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> > it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.
> >=20
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> not
> GPL-2 ... it was a modified artistic license ... i didn't notice the
> license
> change until it was mentioned in the latest notes.
> >=20
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> unless their
> applications are also GPL-2 whichimo is just wrong. it isn't the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
   > > Seems like the ideal thing here would be for you and the other distro
   > > maintainers to get together with Alec in a conversation and come to a
   > > decision as to what licensing scheme y'all want. I haven't really done
   > > much other than cleaning up the packaging and patches and a small
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   >
   > 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
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Looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

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From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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>
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>
yes. go for it. thanks++

-a

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From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

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

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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-ipvcs.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 l91Gxtp020623
    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, 01 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>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

---

1.773 recursive-open-struct 1.0.0

1.773.1 Available under license:

Copyright (c) 2009-2015 William (B.J.) Snow Orvis

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OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.774 python2-wsme 0.9.3 1.el7ost

1.774.1 Available under license:

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LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.775 xz 5.2.2-1.2.debian

1.775.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: XZ Utils
Upstream-Contact:
Lasse Collin <lass.e.collin@tukaani.org>
http://tukaani.org/xz/lists.html
Source:
Comment:
XZ Utils is developed and maintained upstream by Lasse Collin. Major portions are based on code by other authors; see AUTHORS for details. Most of the source has been put into the public domain, but some files have not (details below).

This file describes the source package. The binary packages contain some files derived from other works: for example, images in the API documentation come from Doxygen.

License:
Different licenses apply to different files in this package. Here is a rough summary of which licenses apply to which parts of this package (but check the individual files to be sure!):

- liblzma is in the public domain.

- xz, xzdec, and lzmadec command line tools are in the public domain unless GNU getopt_long had to be compiled and linked in from the lib directory. The getopt_long code is under GNU LGPLv2.1+.

- The scripts to grep, diff, and view compressed files have been adapted from gzip. These scripts and their documentation are under GNU GPLv2+.

- All the documentation in the doc directory and most of the XZ Utils specific documentation files in other directories are in the public domain.

- Translated messages are in the public domain.

- The build system contains public domain files, and files that are under GNU GPLv2+ or GNU GPLv3+. None of these files end up in the binaries being built.

- Test files and test code in the tests directory, and debugging utilities in the debug directory are in the public domain.

- The extra directory may contain public domain files, and files that are under various free software licenses.

You can do whatever you want with the files that have been put into the public domain. If you find public domain legally problematic, take the previous sentence as a license grant. If you still find the lack of copyright legally problematic, you have too many lawyers.
As usual, this software is provided "as is", without any warranty.

If you copy significant amounts of public domain code from XZ Utils into your project, acknowledging this somewhere in your software is polite (especially if it is proprietary, non-free software), but naturally it is not legally required. Here is an example of a good notice to put into "about box" or into documentation:

This software includes code from XZ Utils <http://tukaani.org/xz>.

The following license texts are included in the following files:
- COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
- COPYING.GPLv2: GNU General Public License version 2
- COPYING.GPLv3: GNU General Public License version 3

Note that the toolchain (compiler, linker etc.) may add some code pieces that are copyrighted. Thus, it is possible that e.g. liblzma binary wouldn't actually be in the public domain in its entirety even though it contains no copyrighted code from the XZ Utils source package.

If you have questions, don't hesitate to ask the author(s) for more information.

Files: *
Copyright: 2006-2012, Lasse Collin
1999-2008, Igor Pavlov
2006, Ville Koskinen
1998, Steve Reid
2000, Wei Dai
2003, Kevin Springle
2009, Jonathan Nieder
2010, Anders F Bjrllund
License: PD
This file has been put in the public domain.
You can do whatever you want with this file.
Comment:
From: Lasse Collin <lasse.collin@tukaani.org>
To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...]

> AUTHORS, ChangeLog, COPYING, README, THANKS, TODO,
> dos/README, windows/README
COPYING says that most docs are in the public domain. Maybe that's not clear enough, but on the other hand it looks a bit stupid to put copyright information in tiny and relatively small docs like README.

I don't dare to say that _all_ XZ Utils specific docs are in the public domain unless otherwise mentioned in the file. I'm including PDF files generated by groff + ps2pdf, and some day I might include Doxygen-generated HTML docs too. Those don't include any copyright notices, but it seems likely that groff + ps2pdf or at least Doxygen put some copyrighted content into the generated files.

Files: INSTALL NEWS PACKAGERS
    windows/README-Windows.txt
    windows/INSTALL-Windows.txt
    Copyright: 2009-2010, Lasse Collin
    License: probably-PD
    See the note on AUTHORS, README, and so on above.

Files: src/scripts/* lib/* extra/scanlzma/scanlzma.c
    Copyright: 1993, Jean-loup Gailly
    2006 Timo Lindfors
    2005, Charles Levert
    2005, 2009, Lasse Collin
    2009, Andrew Dudman
    Other-Authors: Paul Eggert, Ulrich Drepper
    License: GPL-2+

Files: src/scripts/Makefile.am src/scripts/xzless.1
    Copyright: 2009, Andrew Dudman
    2009, Lasse Collin
    License: PD
    This file has been put in the public domain.
    You can do whatever you want with this file.

Files: doc/examples/xz_pipe_comp.c doc/examples/xz_pipe_decomp.c
    Copyright: 2010, Daniel Mealha Cabrita
    License: PD
    Not copyrighted -- provided to the public domain.

Files: lib/getopt.c lib/getopt1.c lib/getopt.in.h
    Other-Authors: Ulrich Drepper
    License: LGPL-2.1+

Files: m4/getopt.m4 m4/posix-shell.m4
2007-2008 Free Software Foundation, Inc.
Other-Authors: Bruno Haible, Paul Eggert
License: permissive-fsf

Files: m4/acx_pthread.m4
Copyright: 2008, Steven G. Johnson <stevenj@alum.mit.edu>
License: Autoconf

Files: Doxyfile.in
Copyright: 1997-2007 by Dimitri van Heesch
Origin: Doxygen 1.4.7
License: GPL-2

Files: src/liblzma/check/crc32_table_?.e.h
src/liblzma/check/crc64_table_?.e.h
src/liblzma/lzma/fastpos_table.c
src/liblzma/rangecoder/price_table.c
Copyright: none, automatically generated data
Generated-With:
src/liblzma/check/crc32_tablegen.c
src/liblzma/check/crc64_tablegen.c
src/liblzma/lzma/fastpos_tablegen.c
src/liblzma/rangecoder/price_tablegen.c
License: none
No copyright to license.

Files: .gitignore m4/.gitignore po/.gitignore po/LINGUAS po/POTFILES.in
Copyright: none; these are just short lists.
License: none
No copyright to license.

Files: tests/compress_prepared_bcj_*
Copyright: 2008-2009, Lasse Collin
Source-Code: tests/bcj_test.c
License: PD
This file has been put into the public domain.
You can do whatever you want with this file.
Comment:
changelog.gz (commit 975d8fd) explains:

Recreated the BCJ test files for x86 and SPARC. The old files were linked with crt*.o, which are copyrighted, and thus the old test files were not in the public domain as a whole. They are freely distributable though, but it is better to be careful and avoid including any copyrighted pieces in the test files. The new files are just compiled and assembled object files, and thus don't contain any copyrighted code.
Files: po/cs.po po/de.po po/fr.po
Copyright: 2010, Marek ernock
         2010, Andre Noll
         2011, Adrien Nader
License: PD
This file is put in the public domain.

Files: po/it.po po/pl.po
Copyright: 2009, 2010, Gruppo traduzione italiano di Ubuntu-it
         2010, Lorenzo De Liso
         2009, 2010, 2011, Milo Casagrande
         2011, Jakub Bogusz
License: PD
This file is in the public domain

Files: INSTALL.generic
License: permissive-nowarranty

Files: dos/config.h
         Free Software Foundation, Inc.
         2007-2010, Lasse Collin
Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
               David Mackenzie, Bruno Haible, and many others.
Origin: configure.ac from XZ Utils,
         visibility.m4 serial 1 (gettext-0.15),
         Autoconf 2.52g
License: config-h
configure.ac:
  .
  # Author: Lasse Collin
  #
  # This file has been put into the public domain.
  # You can do whatever you want with this file.
  .
visibility.m4:
  .
dnl Copyright (C) 2005 Free Software Foundation, Inc.
dnl This file is free software; the Free Software Foundation
dnl gives unlimited permission to copy and/or distribute it,
dnl with or without modifications, as long as this notice is preserved.
  .
dnl From Bruno Haible.
  .
comments from Autoconf 2.52g:
# Free Software Foundation, Inc.
.
[...]
.
# As a special exception, the Free Software Foundation gives unlimited
# permission to copy, distribute and modify the configure scripts that
# are the output of Autoconf. You need not follow the terms of the GNU
# General Public License when using or distributing such scripts, even
# though portions of the text of Autoconf appear in them. The GNU
# General Public License (GPL) does govern all other use of the material
# that constitutes the Autoconf program.
.
On Debian systems, the complete text of the GNU General Public
License version 2 can be found in /usr/share/common-licenses/GPL-2.
dos/config.h was generated with autoheader, which tells Autoconf to
output a script to generate a config.h file and then runs it.

Files: po/Makevars
Origin: gettext-runtime/po/Makevars (gettext-0.12)
Copyright: 2003 Free Software Foundation, Inc.
Authors: Bruno Haible
License: LGPL-2.1+
  The gettext-runtime package is under the LGPL, see files intl/COPYING.LIB-2.0
  and intl/COPYING.LIB-2.1.
.
On Debian systems, the complete text of intl/COPYING.LIB-2.0 from
gettext-runtime 0.12 can be found in /usr/share/common-licenses/LGPL-2
and the text of intl/COPYING.LIB-2.1 can be found in
/usr/share/common-licenses/LGPL-2.1.
.
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1.784 gawk 4.0.2 4.el7_3.1

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

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The 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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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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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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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================
Functional Tests
================

The functional tests invoke the client executable to see that it actually works with a running Designate. WARNING: these tests will create and delete zones, recordsets, and other resources in Designate.

Installation
------------

.. code-block:: shell-session

    cd python-designateclient
    pip install python-openstackclient
    pip install -r requirements.txt -r test-requirements.txt
    pip install -e .

Configuration
------------

The functional tests look for a variable `"TEMPEST_CONFIG"` which specifies a config file for the test.

.. code-block:: shell-session

    export TEMPEST_CONFIG=tempest.conf

The tests will use Keystone to grab the Designate endpoint to test against.
They need at least three users (two regular users, and one admin) for all the tests to run.

.. code-block:: shell-session

    [identity]
    uri = http://localhost:5000/v2.0
    uri_v3 = http://localhost:5000/v3
    auth_version = v2
    region = RegionOne
    username = demo
    tenant_name = demo
    password = password
    domain_name = Default
    alt_username = alt_demo
    alt_tenant_name = alt_demo
    alt_password = password
    alt_domain_name = Default
    admin_username = admin
    admin_tenant_name = admin
    admin_password = password
    admin_domain_name = Default

    [designateclient]
    # the directory containing the openstack executable
directory=/root/python-designateclient/.venv/bin

Running the tests
-----------------

The functional tests are run with tox (installed with ``pip install tox``):

.. code-block:: shell-session

    tox -e functional

Contributors Guide
====================

.. toctree::

    contributing
    functional-tests
    Contributing

====================
Code is hosted `on GitHub`_. Submit bugs to the Designate Client project on `Launchpad`_. Submit code to the openstack/python-designateclient project using `Gerrit`_.

.. _on GitHub: https://github.com/openstack/python-designateclient
.. _Launchpad: https://launchpad.net/python-designateclient
.. _Gerrit: https://docs.openstack.org/infra/manual/developers.html#development-workflow

Here's a quick summary:

Install the git-review package to make life easier

.. code-block:: shell-session

   pip install git-review

Branch, work, & submit:

.. code-block:: shell-session

   # cut a new branch, tracking master
   git checkout --track -b bug/id origin/master
   # work work work
   git add stuff
   git commit
   # rebase/squash to a single commit before submitting
   git rebase -i
   # submit
   git-review

---

1.786 pinentry 0.8.1 17.el7

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1.803 libdaemon 0.14 7.el7

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bzip2/libbzip2 version 1.0.3 of 15 February 2005

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if sys.version_info < (2, 6):
    print(sys.stderr, "{}: need Python 2.6 or later.".format(sys.argv[0]))
    print(sys.stderr, "Your Python is {}").format(sys.version))
    sys.exit(1)

from setuptools import setup, find_packages

setup(
    name = "python-json-logger",
    version = "0.1.7",
    url = "http://github.com/madzak/python-json-logger",
    license = "BSD",
    description = "A python library adding a json log formatter",
    author = "Zakaria Zajac",
    author_email = "zak@madzak.com",
    package_dir = {": ': 'src'",
    packages = find_packages("src", exclude="tests"),
    test_suite = "tests.tests",
    install_requires = [setuptools],
    classifiers = ["Development Status :: 3 - Alpha",
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.6',
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]
'Programming Language :: Python :: 3.1',
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'Programming Language :: Python :: 3.3',
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'Topic :: System :: Logging',
]
)

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009717406_1591381517.01/0/python-json-logger-0.1.7-1.el7ost.src.rpm-cosi-expand-archive-UcANU3SC/python-json-logger-0.1.7.tar.gz-cosi-expand-archive-ZIs17Zs7/python-json-logger-0.1.7/setup.py
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1.807 libconfig 1.4.9 5.el7

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1.818 python2-cliff 2.11.1 1.el7ost

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pip, run `make docs` to generate the HTML version of the
$ make docs
   (cd docs && make clean html)
sphinx-build -b html -d build/doctrees source build/html

   Running Sphinx v1.1.3
   loading pickled environment... done
   building [html]: targets for 1 source files that are out of date
   updating environment: 1 added, 1 changed, 0 removed
   reading sources... [100%] index
   looking for now-outdated files... none found
   pickling environment... done
done
   preparing documents... done
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   writing additional files... genindex search
   copying static files... done
   dumping search index... done
   dumping object inventory... done
   build succeeded, 2 warnings.

   Build finished. The HTML pages are in build/html.

The output version of the documentation ends up in
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Running Tests
==============

The test suite for clif uses tox_, which must be installed separately
(`pip install tox`).

To run the tests under Python 2.7 and 3.3 as well as PyPy, run `tox` from the top level directory of the git repository.

To run tests under a single version of Python, specify the appropriate
environment when running tox::

   $ tox -e py27

Add new tests by modifying an existing file or creating new script in
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.. _tox: http://codespeak.net/tox

.. _developer-templates:

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Just configure this file as the SSLCACertificateFile.#

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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
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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 (see http://www.digicool.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. Digital Creations 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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# Contributions to the urllib3 project

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

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

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

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

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

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

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

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  * Allowed to skip SSL hostname verification

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

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

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

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

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

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

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

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

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

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

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

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

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

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

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

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

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

* Aaron Meurer <asmeurer@gmail.com>
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  * 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

---

Open Source Used In Cisco VIM 3.4.6 9313
* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl 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 `utilselectors._fileobj_to_fd` to accept `long`.
* Update appveyor tox setup to use the 64bit python.

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add `HTTPResponse.geturl` method to provide `urlib2.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

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

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.843 python-gudev 147.2 7.el7

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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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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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===========================
Advice for new contributors
===========================

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

   If you are new to contributing to Django, the :doc:`/intro/contributing` tutorial will give you an introduction to the tools and the workflow.

First steps
============

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

   The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.

* **Triage tickets**

   If an `unreviewed ticket`_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct
component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests <internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

   The `reports page`_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

   .. _reports page: https://code.djangoproject.com/wiki/Reports

   .. _CLA: https://www.djangoproject.com/foundation/cla/

   .. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/

   .. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed

Guidelines
==========

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

* **Pick a subject area that you care about, that you are familiar with, or
that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

**Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`_.

**If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

**Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

**Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

**Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.
When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
===

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

   First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the [django-developers] mailing list asking for review on the ticket, or to bring it up in the `#django-dev` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

   Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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```
Code is hosted at `git.openstack.org`_. Submit bugs to the python-manilaclient project on `Launchpad`_. Submit code to the openstack/python-manilaclient project using `Gerrit`_.

.. _git.openstack.org: https://git.openstack.org/cgit/openstack/python-manilaclient
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```

Testing

------
Manilaclient has two types of tests - 'unit' and 'functional'.

The preferred way to run tests is using `''tox``.

See `Consistent Testing Interface`_ for more details.

.. _Consistent Testing Interface: https://git.openstack.org/cgit/openstack/governance/tree/reference/project-testing-interface.rst

Functional tests

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

Functional CLI tests require several things to be able to run:

* Deployed and working manila service.
* Configured config file.

Config file is used to get information like 'auth_url', 'username', 'tenant_name' and 'password'.
To get config sample need to run following 'tox' job:

.. code-block:: console

    $ tox -e genconfig

This will create file 'etc/manilaclient/manilaclient.conf.sample' with all available config opts.
Then rename it removing "sample" and set values for opts there. After it, tests can be run using following tox job:

.. code-block:: console

    $ tox -e functional

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[buildhtml application]
prune: .

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* Shay Banon (kimchy) (For Elasticsearch, of course!)
* Aaron Mildenstein (untergeek)
* Njal Karevoll
* Francois Deppierraz
* Honza Kral (HonzaKral)
* Benjamin Smith (benjaminws)
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<signature of Ty Coon>, 1 April 1989
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1.866 cups-client 1.6.3 35.el7

1.866.1 Available under 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.

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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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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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</OL>

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1.871 python-ethtool 0.8 7.el7

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

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ --

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

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

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

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

<xsl:call-template name="isc.copyright.format">
  <xsl:with-param name="text" select="text()"/>
  <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
    <xsl:text>Copyright (C) </xsl:text>
    <xsl:call-template name="copyright.years">
      <xsl:with-param name="years" select="year"/>
    </xsl:call-template>
  </xsl:for-each>
</xsl:call-template>
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<signature of Ty Coon>, 1 April 1989
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1.883 python-gevent 1.0 3.el7
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1.885 python-webtest 2.0.23 2.el7ost

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

Purely as an implementation detail, this means that `__true_type` inherits from `boost::mpl::true_`, `__false_type` inherits from `boost::mpl::false_`, and `__integral_constant<T, v>` inherits from `boost::mpl::integral_c<T,v>` (provided `T` is not `bool`).
namespace boost {
namespace interprocess {
namespace ipcdetail {

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

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

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

typedef true_  true_type;
typedef false_ false_type;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
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</head>
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All the value based traits in this library conform to MPL’s requirements for
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for broken compilers.

Purely as an implementation detail, this means that

`true_type` inherits from `boost::mpl::true_`,
`false_type` inherits from `boost::mpl::false_`, and
`integral_constant<T, v>` inherits from `boost::mpl::integral_c
(provided `T` is not `bool`)
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

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

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Petersen (jep@ntia.mtia.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 (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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

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// (geolib/GGL), copyright (c) 1995-2010 Geodan, Amsterdam, the Netherlands.

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- adapted geometry types e.g. array, Boost.Polygon
- implemented file-format e.g. WKB
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]

Maybe this should pass?

///////////////////////////////////////////
//
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// http://www.boost.org/LICENSE_1_0.txt)
//
//
///////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstddef>
namespace boost {
namespace intrusive {
namespace detail {

typedef char one;

} // namespace intrusive
} // namespace boost
} // namespace Boost
#endif // !defined BOOST_INTRUSIVE_DETAIL_MPL_HPP
struct two {one _[2];};

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

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

typedef true_ true_type;
typedef false_ false_type;

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

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

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

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

template <class T, class U>
class is_convertible
{
    typedef char true_t;
class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
    public:
        static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};
template<
    bool C,
    typename T1,
    typename T2
>
struct if_c
{
    typedef T1 type;
};

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

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

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

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

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

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

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

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

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

#endif // _MANAGED

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

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

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

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

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

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

#elif _MANAGED

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

#endif

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

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

#endif

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

```template<
```cpp
template<typename T>
struct is_unary_or_binary_function
{
  static const bool value = is_unary_or_binary_function_impl<T>::value;
};
```

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template <typename T> struct alignment_of;

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

template<unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
    >::value;
};

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

    template<typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

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

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

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

template<typename T>

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

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

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

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

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

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

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

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

    struct empty_helper_t2
    {
        int i[256];
    };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};
template<
    struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

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

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

} //namespace detail
} //namespace intrusive
} //namespace boost

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

#pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

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

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
    operator bool() const { return bool_::value; }
};

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

typedef true_  true_type;
typedef false_ false_type;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
/*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/

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

// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f) {}
private:
    split_path& operator=(const split_path&);
};

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

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

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

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        ;
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.0 Transitional//EN"">\n"
        
        "<html>\n"
        "<head>\n"
        "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
        "</title>\n"
        "</head>\n"
        "</body>\n"
        "<H1>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " << *(m_module_list.begin());
    }
    os <<
        "</H1>\n"
        "<H2>Contents</h2>
        "<pre><a href="#input">Input Information</a>
        "<a href="#summary">Licence Summary</a>
        "<a href="#details">Licence Details</a>
        
        while(i != j)
        {

// title:

os << "<a href="#" " make_link_target(licenses.first[i->first].license_name)
   " ">" << licenses.first[i->first].license_name << "</a>
;++i;
}

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

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

// input Information:
//

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

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
  os << *si << "<BR>
;++si;
}

os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>
;//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
  "^[[:blank:]]*\#define[^[:blank:]]+BOOST_VERSION[[:blank:]]+([\d+])\n";
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "</P><br>
    }

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name="summary"></a><h2>Licence Summary</h2>
    while(i != j)
    {
        // title:
        os <<
            "<H3>" << licenses.first[i->first].license_name << "</H3><br>
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="#" " make_link_target(licenses.first[i->first].license_name) "(see details)</a>";
        os << "</P><BLOCKQUOTE>
        ++i;
    }
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while(i != j)
{
    // title:
    os <<
        "<H3>" << make_link_target(licenses.first[i->first].license_name) << "</H3><br>
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
if(!m_bsl_summary_mode || (license_index >= 3))
{
  // Copyright holders:
  os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders::<BLOCKQUOTE><P>";
  std::set<std::string>::const_iterator x, y;
  x = i->second.authors.begin();
  y = i->second.authors.end();
  while(x != y)
  {
    os << *x << "<BR><br>
    ++x;
  }
  os << "</P></BLOCKQUOTE>\n";
  // Files using this license:
  os << "<P>This license applies to the following " << i->second.files.size() << " files::<BLOCKQUOTE><P>";
  std::set<fs::path, path_less>::const_iterator m, n;
  m = i->second.files.begin();
  n = i->second.files.end();
  while(m != n)
  {
    os << split_path(m_boost_path, *m) << "<br><br>
    ++m;
  }
  os << "</P></BLOCKQUOTE>\n";
}
else
{
  os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).<P>\n";
  os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).<P>\n";
}
++license_index;
++i;
}
Files With No Recognisable Copyright Holder

The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:

Files that can be automatically converted to the Boost Software License

Files that could be converted to the Boost Software License

Files that can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS.
"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:</P><BLOCKQUOTE><P>"

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

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

//
os << "ch2><a name="not-to-bsl"</a>Files that can NOT be converted to the Boost Software License</h2>"

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

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

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

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

"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>:</P><BLOCKQUOTE><P>"

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>"));
os << "</p></BLOCKQUOTE>"

// output a table of copyright information:

//
os << "<H2><a name="copyright"</a>Copyright Holder Information</H2>";std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ed = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>"
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    do
        os << split_path(m_boost_path, *fi) << "<br>"
    while(++fi != efi);
    os << "</td>";<}
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}
    os << "</td></tr>n";
    ++ad;
}
    os << "</table>n";

    //
    // output file dependency information:
    //
    os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
    std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = m_copy_paths.begin();
    efi = m_copy_paths.end();
    // if in summary mode, just figure out the "bad" files and print those only:
    if(m_bsl_summary_mode)
    {
        bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
        bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
        bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
        bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
        ie = m_converted_to_bsl.end();
        while(i != ie)
        {
            bad_paths.insert(i->first);
            ++i;
        }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>n";
    }
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi);
        dep = m_dependencies.find(*fi);
        last_dep = m_dependencies.end();
        std::set<fs::path, path_less> seen_deps;
        if (dep != last_dep)
            while(true)
os << "." << ";";
if(fs::exists(m_boost_path / dep->second))
  os << split_path(m_boost_path, dep->second);
else if(fs::exists(dep->second))
  os << split_path(fs::path(), dep->second);
else
  os << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
  {
    os << " \(\text{Circular dependency!}\)\";
    break; // circular dependency!!!
  }
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
  break;
}
os << ".";
++fi;
}
os << "/</pre></BLOCKQUOTE>\n";

os << "/</body></html>\n";

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

Index: boost/mpl/print.hpp
===================================================================
--- boost/mpl/print.hpp (revision 83411)
+++ boost/mpl/print.hpp (working copy)
@@ -45,22 +45,21 @@
:mpl::identity<T>
#if defined(__MWERKS__)
 , aux::print_base
-#endif
+#endif

{ #if defined(BOOST_MSVC)

--- boost/mpl/print.hpp(revision 83411)
+++ boost/mpl/print.hpp(working copy)
@@ -45,22 +45,21 @@
:mpl::identity<T>
#if defined(__MWERKS__)
 , aux::print_base
-#endif
+#endif


enum { n = sizeof(T) + -1 }; 
#elif defined(__MWERKS__) 
    void f(int); 
#else 
-    enum { 
-        n = 
-          # if defined(__EDG_VERSION__) 
-              aux::dependent_unsigned<T>::value > -1 
-          # else 
-              sizeof(T) > -1 
-          # endif 
-    }; 
-#endif 
+    enum { n = aux::dependent_unsigned<T>::value > -1 }; 
+    enum { n1 }; 
+    enum { n2 }; 
+    enum { n = n1 != n2 }; 
+    #else 
+    enum { n = sizeof(T) > -1 }; 
+    #endif 

#elif defined(__EDG_VERSION__) 
    enum { n = aux::dependent_unsigned<T>::value > -1 }; 
#elif defined(BOOST_GCC) 
    enum { n1 }; 
    enum { n2 }; 
    enum { n = n1 != n2 }; 
#else 
    enum { n = sizeof(T) > -1 }; 
#endif 

#if defined(BOOST_MSVC) 
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on 

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 */ 

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1.890 pykickstart 1.99.66.19 2.el7
1.890.1 Available under license:

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#
# Red Hat Author(s): Vratislav Podzimek <vpodzime@redhat.com>
#
from pykickstart.base import KickstartCommand
from pykickstart.errors import KickstartValueError, formatErrorMsg
from pykickstart.options import KSOptionParser

import gettext
_ = lambda x: gettext.ldgettext("pykickstart", x)

class F20_Eula(KickstartCommand):
    """The 'eula' kickstart command"""

    def __init__(self, *args, **kwargs):
        KickstartCommand.__init__(self, *args, **kwargs)
        self.op = self._getParser()
        self.agreed = kwargs.get("agreed", False)

    def __str__(self):
        retval = KickstartCommand.__str__(self)
        if self.agreed:
            retval += "# License agreement\n" + eula %s\n% self._getArgsAsStr()
return retval

def _getArgsAsStr(self):
    if self.agreed:
        return "--agreed"
    else:
        return ""

def _getParser(self):
    op = KSOptionParser()
    # people would struggle remembering the exact word
    op.add_option("--agreed", "--agree", "--accepted", "--accept",
                  dest="agreed", action="store_true", default=False)

    return op

def parse(self, args):
    (opts, extra) = self.op.parse_args(args=args, lineno=self.lineno)
    self._setToSelf(self.op, opts)

    if len(extra) != 0:
        raise KickstartValueError(formatErrorMsg(self.lineno, msg=_('Kickstart command %s does not take any arguments') % "eula"))

    if not self.agreed:
        raise KickstartValueError(formatErrorMsg(self.lineno, msg=_('Kickstart command eula expects the --agreed option')))`

    return self

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#  # Red Hat, Inc.
#  #
#  # Red Hat Author(s): Vratislav Podzimek <vpodzime@redhat.com>
import unittest
from tests.baseclass import *

from pykickstart.errors import *
from pykickstart.commands.eula import *

class F20_TestCase(CommandTest):
    command = "eula"

    def runTest(self):
        # pass
        self.assert_parse("eula --agreed", "eula --agreed\n")
        self.assert_parse("eula --agree", "eula --agreed\n")
        self.assert_parse("eula --accepted", "eula --agreed\n")
        self.assert_parse("eula --accept", "eula --agreed\n")

        # fail
        self.assert_parse_error("eula", KickstartValueError)
        self.assert_parse_error("eula arg 1", KickstartValueError)

if __name__ == "__main__":
    unittest.main()

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Version 2, June 1991

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

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1.891 rootfiles 8.1 11.el7
1.891.1 Available under license :

Summary: The basic required files for the root user's directory
Name: rootfiles
Version: 8.1
Release: 11{%?dist}
License: Public Domain
Group: System Environment/Base

# This is a Red Hat maintained package which is specific to
# our distribution. Thus the source is only available from
# within this srpm.
Source0: dot-bashrc
Source1: dot-bash_profile
Source2: dot-bash_logout
Source3: dot-tcshrc
Source4: dot-cshrc
The rootfiles package contains basic required files that are placed in the root user's account. These files are basically the same as those in /etc/skel, which are placed in regular users' home directories.

For file in %SOURCE0 %SOURCE1 %SOURCE2 %SOURCE3 %SOURCE4 ; do
  f=`basename $file`
  install -p -m 644 $file $RPM_BUILD_ROOT/root/${f/dot-/.}
done

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 8.1-11
  - Mass rebuild 2013-12-27

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-8
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Mar 30 2009 Ondrej Vasik <ovasik@redhat.com> - 8.1-5
  - removed clear from dot-bash_logout (synchronized with bash,
related to #429406)
- removed unset USERNAME from dot-bash_profile (synchronized with bash, related to #196735)

* Mon Mar 23 2009 Phil Knirsch <pknirsch@redhat.com> - 8.1-4
- Added the "we-are-upstream" comments according to Fedora review (#226376)
- Added -p option to install to preserve timestamps (#226376)

* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 8.1-3
- Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Fri Oct 31 2008 Ondrej Vasik <ovasik@redhat.com> - 8.1-2
- Add dist tag, fix a few rpmlint issues, rebuild due to wrong vendor (#451229)
- Added ncurses requirement(#469390)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.1-1.1.1
- rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
- rebuilt

* Fri Dec 3 2004 Bill Nottingham <notting@redhat.com> 8.1-1
- restore tcsh prompt into .tcshrc (#141782)

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com> 8-1
- sync files with current /etc/skel stuff
- remove Xresources (#75666)

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Wed Dec 11 2002 Tim Powers <timp@redhat.com> 7.2-5
- rebuild

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Thu Jul 5 2001 Preston Brown <pbrown@redhat.com> 7.2-1
- /sbin stuff out of PATH, moved into /etc/profile

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Tue Jul 11 2000 Preston Brown <pbrown@redhat.com>
  - fix .tcshrc

* Mon Jul 3 2000 Jakub Jelinek <jakub@redhat.com>
  - don’t assume ASCII ordering in glob pattern

* Sat Jun 10 2000 Bill Nottingham <notting@redhat.com>
  - rebuild
  - fix some path stuff (#11191)

* Tue Apr 18 2000 Bill Nottingham <notting@redhat.com>
  - mv .Xdefaults -> .Xresources (#10623)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 5)

* Tue Jan 12 1999 Jeff Johnson <jbj@redhat.com>
  - add %%clean (#719)

* Tue Dec 29 1998 Cristian Gafton <gafton@redhat.com>
  - build for 6.0

* Wed Oct 9 1998 Bill Nottingham <notting@redhat.com>
  - remove /root from %%files (it's in filesystem)

* Sun Aug 23 1998 Jeff Johnson <jbj@redhat.com>
  - portability fix for .cshrc (problem #235)
  - change version to be same as release.

* Tue Sep 09 1997 Erik Troan <ewt@redhat.com>
  - made a noarch package

* Thu Mar 20 1997 Erik Troan <ewt@redhat.com>
  - Removed .Xclients and .Xsession from package, added %%pre to back up old .Xclients if necessary.

1.892 python-rfc3986 0.3.1 1.el7ost

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1.893 perl-plrpc 0.2020 14.el7
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From 29f5ad4805a04e4c4fd18795f7153798e80a46ce Mon Sep 17 00:00:00 2001 
From: =?UTF-8?q?Petr=P%C3%A1sa=? <ppisar@redhat.com>
Date: Mon, 18 Nov 2013 12:20:52 +0100 
Subject: [PATCH] Security notice on Storable and reply attack
MIME-Version: 1.0 
Content-Type: text/plain; charset=UTF-8 
Content-Transfer-Encoding: 8bit 

Signed-off-by: Petr Psa <ppisar@redhat.com>
--- 
README | 16 +++++++++++++++++++++ 
lib/RPC/PIServer.pm | 15 +++++++++++++++++++ 
2 files changed, 31 insertions(+)

diff --git a/README b/README
index 8a68657..48a33e4 100644 
--- a/README 
+++ b/README
@@ -204,6 +204,7 @@ EXAMPLE
 require RPC::PIServer;
 require MD5;

+ package MD5_Server; # Clients need to request application 
+ # "MD5_Server"

@@ -204,6 +204,7 @@ SECURITY
 that I missed something. Security was a design goal, but not *the* 
 design goal. (A well known problem ...)

+ Due to implementation of PIRPC, it's hard to use internal authentication 
+ mechanisms properly to achieve secured remote calls. Therefore users are 
+ advised to use an external authentication mechanism like TLS or IPsec.
I highly recommend the following design principles:

Protection against "trusted" users

Be restrictive
   Think twice, before you give a client access to a method.

Use of Storable
   Storable module used for serialization and deserialization
   underneath is inherently insecure. Deserialized data can contain
   objects which lead to loading foreign modules and executing possible
   attached destructors. Do not accept host-based unauthorized
   connections. The Storable module is exercised before checking user
   password.

Perlsec
   And just in case I forgot it: Read the "perlsec" man page. :-)

Please note PlRPC encryption does not protect from reply attacks.
You should have implement it on the application or the cipher level.

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The PlRPC-modules are

Due to implementation of PlRPC, it's hard to use internal authentication
mechanisms properly to achieve secured remote calls. Therefore users are
advised to use an external authentication mechanism like TLS or IPsec.

I highly recommend the following design principles:

Think twice, before you give a client access to a method.
+=item Use of Storable
+
+L<Storable> module used for serialization and deserialization underneath is
+inherently insecure. Deserialized data can contain objects which lead to
+loading foreign modules and executing possible attached destructors. Do not
+accept host-based unauthorized connections. The L<Storable> module is
+exercised before checking user password.
+
=item perlsec

And just in case I forgot it: Read the C<perlsec> man page. :-)  
@ @ -667.6 +679.9 @ @ login phase, where to use a host based key. As soon as the user
has authorized, you should switch to a user based key. See the
DBI::ProxyServer for an example.

+Please note PIRPC encryption does not protect from reply attacks. You should
+have implement it on the application or the cipher level.
+
=back

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--

1.8.3.1

1.894 python-singledispatch 3.4.0.3 2.1.el7ost

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1.896 lzop 1.03 10.el7
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import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
}
{  
  Key: "feature",
  Value: types.KeyValue{  
    Key:   "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
  },
},
{
  Key: "feature",
  Value: types.KeyValue{  
    Key:   "dvs",
    Value: "vSphere Distributed Switch",
  },
},
}

type LicenseManager struct {  
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {  
  m := &LicenseManager{}  
  m.Self = ref  
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if Map.IsVPX() {  
    am := Map.Put(&LicenseAssignmentManager{}).Reference()  
    m.LicenseAssignmentManager = &am
  }

  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {  
  body := &methods.AddLicenseBody{  
    Res: &types.AddLicenseResponse{},
  }

  for _, license := range m.Licenses {  
    if license.LicenseKey == req.LicenseKey {  
      body.Res.Returnval =-licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }

  m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{  
    LicenseKey: req.LicenseKey,
  })
Labels: req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
body := &methods.RemoveLicenseBody{
Res: &types.RemoveLicenseResponse{},
}

for i, license := range m.Licenses {
if req.LicenseKey == license.LicenseKey {
m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
return body
}
return body
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
body := &methods.QueryAssignedLicensesBody{
Res: &types.QueryAssignedLicensesResponse{},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
id := types.ManagedObjectReference{
Type: "HostSystem",
Value: req.EntityId,
}

if Map.Get(id) == nil {
return body
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
}
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels
    return info
}

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package main

import (
    "strings"
)

// LicenseFilePrefix is a list of filename prefixes that indicate it
// might contain a software license
var LicenseFilePrefix = []string{
    "licence", // UK spelling
    "license", // US spelling
    "copying",
}

//
"unlicense",
"copyright",
"copyleft",
"authors",
"contributors",
}

// LegalFileSubstring are substrings that indicate the file is likely
// to contain some type of legal declaration. "legal" is often used
// that it might moved to LicenseFilePrefix
var LegalFileSubstring = []string{
"legal",
"notice",
"disclaimer",
"patent",
"third-party",
"thirdparty",
}

// IsLicenseFile returns true if the filename might be contain a
// software license
func IsLicenseFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    return false
}

// IsLegalFile returns true if the file is likely to contain some type
// of of legal declaration or licensing information
func IsLegalFile(filename string) bool {
    lowerfile := strings.ToLower(filename)
    for _, prefix := range LicenseFilePrefix {
        if strings.HasPrefix(lowerfile, prefix) {
            return true
        }
    }
    for _, substring := range LegalFileSubstring {
        if strings.Contains(lowerfile, substring) {
            return true
        }
    }
    return false
}
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goproperties - properties file decoder for Go

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q        float32
    Params   map[string]string
}
Structure to represent a clause in an HTTP Accept Header

SUBDIRECTORIES

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1.898 libvirt-client 3.9.0 14.el7_5.6

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1.900 dig-rb 1.0.1

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1.901 spice-server 0.14.0 6.el7_6.1

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1.902 sysv-init 2.88dsf-59.9.debian
1.902.1 Available under license:
This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.
In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl/pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu/pub/Linux/system/daemons/init
92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project.
The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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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.
This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels.
It works through managing symlinks in /etc/rc?.d

This package is built from the `sysvinit' source package. Please
consult the copyright file of the sysvinit package for the location of
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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFxQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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* Thomas Kluyver <thomas@kluyver.me.uk>
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* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

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

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

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

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

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

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

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

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

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

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

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

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration
* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t [ ];

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>") %>>;

int main() { }

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overrides:
ceph:
  conf:
    fuse default permissions: false
    client acl type: posix_acl

tasks:
- workunit:
  clients:
    all:
      - fs/misc/acl.sh
      - fs/misc/chmod.sh

Maybe this should pass?

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* *
*/

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

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

//
struct split_path
{
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f)
        : root(r), file(f){ }
private:
    split_path& operator=(const split_path&);
};

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

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

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

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

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.");
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
}
<DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.0 Transitional//EN"">
<html>
<head>
<title>Boost Licence Dependency Information</title>
</head>
<body>
<H1>Boost Licence Dependency Information</H1>
<H2>Contents</h2>
<pre><a href="#input">Input Information</a>
<a href="#summary">Licence Summary</a>
<a href="#details">Licence Details</a>
<a href="#files">Files with no recognised license</a>
<a href="#authors">Files with no recognised copyright holder</a>
<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
<a href="#copyright">Copyright Holder Information</a></pre>

while(i != j)
{
    title:
    os << " <A href="#" make_link_target(licenses.first[i->first].license_name) "}" licenses.first[i->first].license_name "</a>
;
    ++i;
}

os << "Files with no recognised license</a>

"<a href="#authors">Files with no recognised copyright holder</a>

if(!m_bsl_summary_mode)
{
    os << "Moving to the Boost Software License...
" " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
" " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
" " a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
" " a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
" " a href="#copyright">Copyright Holder Information</a>

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

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

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
os << *si << "<BR>
++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";

//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^\[[:blank:\]*#\[[:blank:\]*define\[[:blank:\]*\+BOOT_VERSION\[[:blank:\]*+(\d+)]\]"");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
   int version = boost::lexical_cast<int>(what.str(1));
os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "</p>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
   //
   // start with the summary:
   //
os << "<a name="summary"></a><h2>Licence Summary</h2>
"<h2>Licence Summary</h2>\n";
   while(i != j)
// title:
os << "<H3>" << licenses.first[i->first].license_name << "</H3>
;
// license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
// Copyright holders:
os << "<P>" << i->second.authors.size() << " authors and " << i->second.files.size() << " files (see details)";
os << "</P>";
++i;
}
}

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
;
while(i != j)
{
  // title:
  os << "<H3><A name="" << make_link_target(licenses.first[i->first].license_name) << ">" << licenses.first[i->first].license_name << "</H3>";
  // license text:
o = "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>
;
if((m_bsl_summary_mode || (license_index >= 3))
{
  // Copyright holders:
  os << "<P>" << i->second.authors.size() << " copyright holders:";
  std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
  os << "<BR>
; ++x;
}
os << "</P>";
  // Files using this license:
  os << "<P>" << i->second.files.size() << " files:";
  std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
while(m != n)
{
  os << "<BR>
; ++m;
}
os << "</P>";


n = i->second.files.end();
while(m != n)
{
    os << split_path(m_boost_path, *m) << "\n";
    ++m;
}
os << "</p></BLOCKQUOTE>\n";
else
{
os << "<p>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</p>\n";
os << "<p>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</p>\n";
}
++license_index;
i++;
}

// Output list of files not found to be under license control:
//
os << "$h2<$a name="files">Files With No Recognisable Licence</h2>$n"
   "$p>The following "$ << m_unknown_licenses.size() << "$ files had no recognisable license information:"<p>$BLOCKQUOTE><p>"
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";

// Output list of files with no found copyright holder:
//
os << "$h2<$a name="authors">Files With No Recognisable Copyright Holder</h2>$n"
   "$p>The following "$ << m_unknown_authors.size() << "$ files had no recognisable copyright holder:"<p>$BLOCKQUOTE><p>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
//
Files that can be automatically converted to the Boost Software License

The following files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:

```
if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<p>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
             "</tt><br>\n \t<tr><pre>
             "<i-1>-second.first "</pre></td>\n \t<td><pre>
             "<i-1>-second.second "</pre></td>\n \t</tr></pre>"
++i;
        ++file_num;
    }
}

Files that could be converted to the Boost Software License

The following files could be manually converted to the Boost Software License, but have not yet been:

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

Files that can NOT be converted to the Boost Software License

The following files cannot be converted to the Boost Software License because we need the permission of more authors:

```
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
```

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

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

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

// os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket
permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
));

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

// output a table of copyright information:

os << "<H2><a name="copyright"></a>Copyright Holder Information</h2><table border="1">";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
adc = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "<td>";
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td><tr>
    ++ad;
}

os << "</table>";

// output file dependency information:

os << "<H2><a name="depend"></a>File Dependency Information</h2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less> ::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
while(fi != efi)
{
    os << split_path(m_boost_path, *fi) << " ";
    ++fi;
}
    os << "</pre></BLOCKQUOTE>";
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
ie = m_converted_to_bsl.end();
while(i != ie)
{
bad_paths.insert(i->first);
++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
false << "<P>For brevity, only files not under the BSL are shown</P>

while(fi != efi)
{
false << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
true::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
while(true)
{
false << " -> ";
if(fs::exists(m_boost_path / dep->second))
false << split_path(m_boost_path, dep->second);
else if(fs::exists(dep->second))
false << split_path(fs::path(), dep->second);
else
false << dep->second.string();
if(seen_deps.find(dep->second) != seen_deps.end())
{
false << " <I>(Circular dependency!)</I>";
break; // circular dependency!!!
}
seen_deps.insert(dep->second);
last_dep = dep;
dep = m_dependencies.find(dep->second);
if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
break;
}
os << ":n"
++fi;
}
os << "</pre></BLOCKQUOTE>n"

os << "</body></html>n"

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

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///////////////////////////////////////////////////////////////////////////
#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
    #include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
    #pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    { return x.first;  }

    template<class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first); }  
};

}  //namespace container_detail {
namespace container {

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

}  //namespace container {

}  //namespace boost {

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif
#
#include <cstddef>

namespace boost {
 namespace interprocess {
 namespace ipcdetail {

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

 template< bool C_ >
 struct bool_ : integral_constant<bool, C_> {
     static const bool value = C_;
typedef bool_<true> true_;
typedef bool_<false> false_;
typedef true_ true_type;
typedef false_ false_type;
typedef char yes_type;
struct no_type
{
    char padding[8];
};
template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};
template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};
template<
    bool C
 , typename T1
 , typename T2
>
struct if_c
{
    typedef T1 type;
};
template<
    typename T1
 , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};
template<
template<typename T1, typename T2, typename T3>
struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

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

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

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

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

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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  <?xml version="1.0" encoding="UTF-8"?>
  <!DOCTYPE article PUBLIC "-/Boost/DTD BoostBook XML V1.0//EN"
  "http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
  <article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
  xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
  <copyright>
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic
def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')
def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
    return map(itemgetter(1), sorted(f()))
def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
with open(filename, 'r') as f:
    content = list(f)
for i, line in enumerate(content[:15]):
    m = re.match(r'^(?P<prefix>\W*)(\(c\))?\s*copyright\s*(\(c\))?\d{4}(\s*\-\s*\d{4})?\s+(?P<name>.+?)\s*$', line, re.IGNORECASE)
    if m:
        d = m.groupdict()
        prefix.add(d['prefix'])
        lines.append(i)
        names.append(d['name'].strip())
if len(prefix) != 1:
    print 'Not found:', filename
    return
prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)

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Jerasure - A C/C++ Library for a Variety of Reed-Solomon and RAID-6 Erasure Coding Techniques

Revision 2.0: Galois Field backend now links to GF-Complete

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

template <typename X>
struct f { using type = X; };

template <int i>
struct t {};

using vector = mpl_vector((1..input_size).to_a.map { [n] "t<#{n}>>" }) %>

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() {}  

// This file contains a list of people who've made non-trivial
// contribution to the Google C++ Testing Framework project. People
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; }; 

struct state { }; 

template <int i>
struct t { }; 

using vector = mpl_vector((1..input_size).to_a.map | n | t<#{n}> | }); 

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type; 

int main() { } 

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#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/config.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {

namespace boost { /* Start namespace boost */
namespace intrusive { /* Start namespace intrusive */

namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

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

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

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     
    template <typename T>                                          
    struct boost_intrusive_has_type_ ## TNAME                      
    {                                                              
        template <typename X>                                       
        static char test(int, typename X::TNAME*);                  
        
        template <typename X>                                       
        static int test(...);                                       
        
        static const bool value = (1 == sizeof(test<T>(0, 0)));     
    };                                                             
    
    template <typename T, typename DefaultType>                    
    struct boost_intrusive_default_type_ ## TNAME                  
    {                                                              
        struct DefaultWrap { typedef DefaultType TNAME; };          
        
        typedef typename                                            
            ::boost::intrusive::detail::if_c                         
            < boost_intrusive_has_type_ ## TNAME<T>::value        
                , T, DefaultWrap>::type::TNAME type;                  
    };                                                             

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, 
    TNAME, TIMPL)   
    typename INSTANTIATION_NS_PREFIX                                                            
        boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type                            

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  
    INSTANTIATION_NS_PREFIX                                        
    boost_intrusive_has_type_ ## TNAME<T>::value                  

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)  
    template <typename T, typename DefaultType>                    
    struct boost_intrusive_eval_default_type_ ## TNAME             

template <typename X>
static char test(int, typename X::TNAME*);

template <typename X>
static int test(...);

struct DefaultWrap
{
  typedef typename DefaultType::type TNAME;
};

static const bool value = (1 == sizeof(test<T>(0, 0)));

typedef typename ::boost::intrusive::detail::eval_if_c
    < value
    , ::boost::intrusive::detail::identity<T>
    , ::boost::intrusive::detail::identity<DefaultWrap>
    >::type::TNAME type;

#endif

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)

  template <typename X>
  static char test(int, typename X::TNAME*);

  template <typename X>
  static int test(...);

  struct DefaultWrap
  {
    typedef typename DefaultType::type TNAME;
  };

  static const bool value = (1 == sizeof(test<T>(0, 0)));

  typedef typename ::boost::intrusive::detail::eval_if_c
      < value
      , ::boost::intrusive::detail::identity<T>
      , ::boost::intrusive::detail::identity<DefaultWrap>
      >::type::TNAME type;

#endif

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND)

  template <class T>
  struct TRAITS_PREFIX##_bool
  {
    template<bool Add>
    struct two_or_three {yes_type _[2 + Add];};

    template <class U> static yes_type test(...);

    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);

    static const std::size_t value = sizeof(test<T>(0));
  };

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) 

```
template <typename U, typename Signature> 

class TRAITS_NAME 
{

private:

template<Signature> struct helper;

template<typename T> 
static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*);

public:
static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
};

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
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overrides:
  ceph:
    conf:
      client:
        fuse set user groups: true
        fuse default permissions: false
        client acl type: posix_acl
tasks:
  - workunit:
    clients:
      all:
        - suites/pjd.sh

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xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
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    <_3:licenseConcluded rdf:resource="http://spdx.org/licenses/MIT"/>
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/examples/eventloop/README.rst

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1.926 python-xstatic-d3 3.5.17.0 1.el7ost

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- Vitaly Kruglikov
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- Marek Majkowski
- Jan Urbaski
- Brian K. Jones
- Ask Solem
- ml
- Will
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- Fredrik Svensson
- Pedro Abranches
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- Erik Andersson
- Charles Law
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- Jason J. W. Williams
- James Mutton
- Cenk Alti
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- cellscape
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- Garth Williamson
- Erik Olof Gunnar Andersson
- David Strauss
- Anton V. Yanchenko
- Alexey Myasnikov
- Alessandro Tagliapietra
- Adam Flynn
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DMIDecode Python Extension Module shadows the DMIDecode utility
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1.950 nss-util 3.36.0 1.1.el7_6

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1.961 python-linux-procfs 0.4.9 4.el7

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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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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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1.975 libselinux 2.6-3.debian

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.976 opus 1.0.2 6.el7
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1.977 basesystem 10.0 7.el7
1.977.1 Available under license :

Summary: The skeleton package which defines a simple Red Hat Enterprise Linux system
Name: basesystem
Version: 10.0
Release: 7% (?dist)
License: Public Domain
Group: System Environment/Base
Requires(pre): setup filesystem
BuildRoot: %(_mktmp -ud %(_tmppath)/%{name}-%{version}-%{release}-XXXXXX)
BuildArch: noarch
Basesystem defines the components of a basic Red Hat Enterprise Linux system (for example, the package installation order to use during bootstrapping). Basesystem should be in every installation of a system, and it should never be removed.

1.978 p11-kit 0.23.5 3.el7

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1.979 python-jwcrypto 0.4.2 1.el7

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1.980 fuse-overlayfs 0.7.2 6.el7_8

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### 1.981 sigdump 0.2.4

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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
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copy of the library already present on the user's computer system,
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1.988 perl-filter 1.49 3.el7

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The End

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'#-------------------------------------------------------------------------------BS_STVARS_040_01#-------------------------------------------------------------------------------'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_02#-------------------------------------------------------------------------------'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_03#-------------------------------------------------------------------------------'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected
'#---------------------BS_STVARS_040_04----------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected
'#---------------------BS_STVARS_040_05----------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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cmake-2.4.8/Utilities/cmtar/compat/gethostname.c:
gethostname.c: minimal substitute for missing gethostname() function
created 2000-Mar-02 jmk
requires SVR4 uname() and -lc

by Jim Knoble
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cmake-2.4.8/Utilities/cmzlib/zlib.h:

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

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cmake-2.4.8/Utilities/cmcurl/inet_pton.c,
cmake-2.4.8/Source/CTest/Curl/inet_pton.c:
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The tz database

The public-domain time zone database contains code and data that represent the
history of local time for many representative locations around the globe. It is
updated periodically to reflect changes made by political bodies to time zone
boundaries, UTC offsets, and daylight-saving rules. This database (often called
tz or zoneinfo) is used by several implementations, including the GNU C Library
used in GNU/Linux, FreeBSD, NetBSD, OpenBSD, Cygwin, DJGPP, HP-UX, IRIX, Mac OS
X, OpenVMS, Solaris, Tru64, and UnixWare.

Each location in the database represents a national region where all clocks
keeping local time have agreed since 1970. Locations are identified by continent
or ocean and then by the name of the location, which is typically the largest
city within the region. For example, America/New_York represents most of the US
eastern time zone; America/Phoenix represents most of Arizona, which uses
mountain time without daylight saving time (DST); America/Detroit represents
most of Michigan, which uses eastern time but with different DST rules in 1975;
and other entries represent smaller regions like Starke County, Indiana, which
switched from central to eastern time in 1991 and switched back in 2006. To use
the database on an extended POSIX implementation set the TZ environment variable
to the location's full name, e.g., TZ="America/New_York".

In the tz database's FTP distribution the code is in the file tzcodeC.tar.gz,
where C is the code's version; similarly, the data are in tzdataD.tar.gz, where
D is the data's version. The following shell commands download these files to a
GNU/Linux or similar host; see the downloaded README file for what to do next.

wget 'ftp://elsie.nci.nih.gov/pub/tz*.tar.gz'
gzip -dc tzcode*.tar.gz | tar -xf -
gzip -dc tzdata*.tar.gz | tar -xf -

The code lets you compile the tz source files into machine-readable binary
files, one for each location. It also lets you read a tz binary file and
interpret time stamps for that location.
The data are by no means authoritative. If you find errors, please send changes to the time zone mailing list. You can also subscribe to the mailing list, retrieve the archive of old messages (in gzip compressed format), or retrieve archived older versions of code and data; there is also a smaller HTTP mirror.

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# Variable Name: license #
# Scope: Global #
# Access Type: Static #
# Data Type: string #
# # #
# Creation Date: 2008-02-07 #
# Author : Sharique Abdullah #
# # #
# Description: Test Cases of Dynamic System Variable license #
# that checks the behavior of this variable in the following ways #
# * Value Check #
# * Scope Check #
# # Reference: http://dev.mysql.com/doc/refman/5.1/en/ #
# server-system-variables.html #
# #
 fermentation-variables.html

--echo '#---------------------BS_STVARS_040_01----------------------#'

# Displaying default value #

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_02----------------------#'

# Check if Value can set #

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_03----------------------#'

# Check if the value in GLOBAL Table matches value in variable #


SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

--echo '#-------------------------------------------------------------------------#'
# Check if accessing variable with and without GLOBAL point to same variable #
#--------------------------------------------------------------------------------
SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#-------------------------------------------------------------------------#'
# Check if license can be accessed with and without @@ sign #
#--------------------------------------------------------------------------------
SELECT COUNT(@@license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

PCRE LICENCE
------------
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.

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THE BASIC LIBRARY FUNCTIONS
----------------------------

Written by: Philip Hazel
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PCRE JUST-IN-TIME COMPILATION SUPPORT
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STACK-LESS JUST-IN-TIME COMPILER
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THE C++ WRAPPER FUNCTIONS

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The Debian package of MySQL was first debianized on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and ist maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

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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1.1002 lttng-ust 2.4.1 5.el7

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1.1003 jbigkit-libs 2.0 11.el7
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1.1005 dhclient 4.2.5 68.el7_5.1

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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 3a0982da308228d796df35f98d787c5e5f2bb5b6.

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:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:variable name="isc.copyright.leader" select="'/** @copyright @version '"/>
    <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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The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

http://lkml.org/lkml/2009/5/13/16
xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel
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I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to
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1.1030 perl-text-parsewords 3.29 4.el7

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Received: from zmta04.collab.prod.int.phx2.redhat.com (LHLO
zmta04.collab.prod.int.phx2.redhat.com) (10.5.81.11) by
zmail14.collab.prod.int.phx2.redhat.com with LMTP; Mon, 18 Nov 2013
11:06:10 -0500 (EST)
Received: from zmta04.collab.prod.int.phx2.redhat.com (localhost [127.0.0.1])
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Subject: [rt.cpan.org #90483] missing license file
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On Mon Nov 18 10:37:28 2013, mmaslano@redhat.com wrote:
> It would be a big help if you have better defined license. License
> text in .pm file would be enough.

Will do in next version.

> I found Perl license in Makefile.PL,
> so we assumed it's Perl (GPL+ or Artistic). Is it correct?

yes

--
Alexandr Ciornii, http://chorny.net

1.1031 flask-restplus 0.12.1
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1.1032 geo-ip 1.5.0 13.el7

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=======

Testing
=======
Every Castellan code submission is automatically tested against a number of gating jobs to prevent regressions. Castellan developers should have a habit of running tests locally to ensure the code works as intended before submission.

For your convenience we provide the ability to run all tests through the ``tox`` utility. If you are unfamiliar with tox please see refer to the `tox documentation`_ for assistance.

.. _`tox documentation`: https://tox.readthedocs.org/en/latest/

Unit Tests
----------

Currently, we provide tox environments for a variety of different Python versions. By default all available test environments within the tox configuration will execute when calling ``tox``. If you want to run an independent version, you can do so with the following command:

.. code-block:: bash

    # Executes tests on Python 2.7
    $ tox -e py27

.. note::

    Other available environments are py35, pypy and pep8.

    If you do not have the appropriate Python versions available, consider setting up PyEnv to install multiple versions of Python. See the documentation regarding `Setting up a Barbican development environment`_ for more information.

Functional Tests
----------------

Unlike running unit tests, the functional tests require Barbican and Keystone services to be running in order to execute. For more information on this please see `Setting up a Barbican development environment`_ and `Using Keystone Middleware with Barbican`_.

.. _`Setting up a Barbican development environment`: https://docs.openstack.org/barbican/latest/setup/dev.html
.. _`Using Keystone Middleware with Barbican`: https://docs.openstack.org/barbican/latest/setup/keystone.html

Castellan uses either ``/etc/castellan/castellan-functional.conf`` or ``./etc/castellan/castellan-functional.conf`` in order to run functional tests. A sample file can be generated by running:
# Generate a sample configuration file
$ tox -e genconfig
```
castellan/etc/castellan/castellan-functional.conf.sample`` is generated. It must be renamed to ```castellan-functional.conf``` and placed in ```/etc/castellan`` or ```./etc/castellan``.

The file should look something like the following:

```bash
[DEFAULT]
[identity]
username = 'admin'
password = 'openstack'
project_name = 'admin'
auth_url = 'http://localhost/identity/v3'
```

Once you have the appropriate services running and configured you can execute the functional tests through tox.

```bash
# Execute Barbican Functional Tests
$ tox -e functional
```

By default, the functional tox job will use ```testr``` to execute the functional tests.

## Debugging

In order to be able to debug code in Castellan, you must use the Python Debugger. This can be done by adding ```import pdb; pdb.set_trace()``` to set the breakpoint. Then run the following command to hit the breakpoint:

```bash
# hit the pdb breakpoint
$ tox -e debug
```

Once in the Python Debugger, you can use the commands as stated in the `Debugger Commands` section here: https://docs.python.org/2/library/pdb.html
Pep8 Check

----------

Pep8 is a style guide for Python code. Castellan code should be have proper style before submission. In order to ensure that pep8 tests can be run through tox as follows:

.. code-block:: bash

   # Checks python code style
   $ tox -e pep8

Any comments on bad coding style will output to the terminal.

1.1034 libev 4.15 7.el7

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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1.1039 pycrypto 2.6.1 16.el7ost
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Last updated: 2009-02-28

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=== EOF ===

1.1040 python2-oslo-log 3.36.0 1.el7ost

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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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Willy Tarreau - w@1wt.eu

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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
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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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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
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that the user who changes the contents of definitions files in the
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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
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than the cost of performing this distribution.

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

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Version 2, June 1991

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1.1059 curl 7.29.0 51.el7_6.3
1.1059.1 Available under license:

License Mixing with apps, libcurl and Third Party Libraries
=================================================================

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[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement
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[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

**libcurl** http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

**OpenSSL** http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

**GnuTLS** http://www.gnultls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

**yassl** http://www.yassl.com/

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**axTLS** http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

**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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Heimdal http://www.pdc.kth.se/heimdal/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

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1.1060 python2-django-compressor 2.1
5.el7ost
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utils.cache.cached_property extracted from Celery

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1.1061 libsemanage 2.5 14.el7

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```

1.1081 libnl3 1.1.4 3.el7

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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1.1093 konsorten go windows terminal sequences v1.0.2 f55edac

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1.1094 polkit-pkla-compat 0.1 4.el7

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Compiled by gm@skiddaw on Fri Mar 8 00:17:33 2013
from file /misc/emacs/bzr/emacs24-merge/lisp/emacs-lisp/copyright.el
in Emacs version 24.3.1
with all optimizations.

This file contains utf-8 non-ASCII characters,
and so cannot be loaded into Emacs 22 or earlier.

(and (boundp 'emacs-version)
  (< (aref emacs-version (1- (length emacs-version))) ?A)
  (string-lessp emacs-version "23")
  (error ""’%s' was compiled for Emacs 23 or later" #$))

(byte-code "
")
Open Source Used In Cisco VIM 3.4.6  14098

String representing the current year.
(defvar copyright-current-year (format-time-string "\%Y") (#$ . 2898))
(defalias 'copyright-limit #\[nil "205\203\305\\Z\207\\W\207" [copyright-limit copyright-at-end-flag] 2])
(put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)
(##96 Search forward or backward depending on \"copyright-at-end-flag\".
(defalias 'copyright-re-search #\[(regexp &optional bound noerror count) \"203\310\300\306\205\305\306\205\203\206\n\205\203`d\nZ\202`\n\" [copyright-at-end-flag re-search-backward re-search-forward] 5 (#$ . 3189))
(##70 Return point-min or point-max, depending on \"copyright-at-end-flag\".
(defalias 'copyright-start-point #\[nil \"203d\207e\207" [copyright-at-end-flag] 1 (#$ . 3479))
(##65 Return non-nil if point is too far from the edge of the buffer.
(defalias 'copyright-offset-too-large-p #\[nil "205\203\dZW\207\V\207" [copyright-limit copyright-at-end-flag] 3 (#$ . 3653))
(##218 Possibly adjust the search performed by \"copyright-find-copyright\".
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years.
(defalias 'copyright-find-copyright #\[nil \"210g\203\305\203\310\301\303\310\312\306\205\203\206\n\205\203`d\nZ\202`\n\" [copyright-start-point err (byte-code \"304\305\306\205\203\206\n\205\203`d\nZ\202`\n\" [copyright-regexp copyright-names-regexp copyright-limit copyright-at-end-flag copyright-re-search \"\(\" \"\(\[\t\]*\n\)\).*\(?:\" \"\) t] 6) ((error (message \"Can't update copyright: %s\" err) nil)) 3 (#$ . 3862))
(##175 Possibly adjust the search performed by \"copyright-find-copyright\".
If the years continue onto multiple lines that are marked as comments,
(defgroup copyright nil "Update the copyright notice in current buffer." :group 'tools)

(defcustom copyright-limit 2000
 "Don't try to update copyright beyond this position unless interactive. A value of nil means to search whole buffer."
 :group 'copyright
 :type '(choice (integer :tag "Limit")
 (const :tag "No limit")))

(defcustom copyright-at-end-flag nil
 "Non-nil means to search backwards from the end of the buffer for copyright. This is useful for ChangeLogs.

---

;;; copyright.el --- update the copyright notice in current buffer

;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,
;; Inc.

;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

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; Commentary:

;; Allows updating the copyright year and above mentioned GPL version manually
;; or when saving a file.
;; Do (add-hook 'before-save-hook 'copyright-update), or use
;; M-x customize-variable RET before-save-hook RET.

;; Code:
(defun copyright-regexp
  "What your copyright notice looks like. The second \( \) construct must match the years."
  :group 'copyright
  :type 'regexp)

(defvar copyright-names-regexp ""
  "Regexp matching the names which correspond to the user. Only copyright lines where the name matches this regexp will be updated. This allows you to avoid adding years to a copyright notice belonging to someone else or to a group for which you do not work."
  :group 'copyright
  :type 'regexp)

(defvar copyright-years-regexp
  "Match additional copyright notice years. The second \( \) construct must match the years."
  :group 'copyright
  :type 'regexp)

(defvar copyright-year-ranges nil
  "Non-nil if individual consecutive years should be replaced with a range. For example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008. If you use ranges, you should add an explanatory note in a README file. The function \'copyright-fix-years\' respects this variable."
  :group 'copyright
  :type 'boolean
  :version "24.1")
(defcustom copyright-query 'function
"If non-nil, ask user before changing copyright.
When this is `function', only ask when called non-interactively."
:group 'copyright
:type '(choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t))

;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil.")

(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y"
"String representing the current year.")

(defsubst copyright-limit () ; re-search-forward BOUND
(and copyright-limit
(if copyright-at-end-flag
(- (point) copyright-limit)
(+ (point) copyright-limit))))

(defun copyright-re-search (regexp &optional bound noerror count)
"Re-search forward or backward depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
(re-search-backward regexp bound noerror count)
(re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
"Return point-min or point-max, depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
(point-max)
(point-min)))

(defun copyright-offset-too-large-p ()
"Return non-nil if point is too far from the edge of the buffer."
(when copyright-limit
(if copyright-at-end-flag
(< (point) (- (point-max) copyright-limit))
(> (point) (+ (point-min) copyright-limit))))

(defun copyright-find-copyright ()

"Return non-nil if a copyright header suitable for updating is found.
The header must match `copyright-regexp' and `copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses."
(widen)
(goto-char (copyright-start-point))
(condition-case err
  ;; (1) Need the extra $( )) around copyright-regexp because we
  ;; goto (match-end 1) below. See note (2) below.
  (copyright-re-search (concat $( " copyright-regexp
  "\\\\( \|\|\\)\\|\( ?\|\)\).*\\(?:
  copyright-names-regexp $( "\\))")
  (copyright-limit)
  t)
  ;; In case the regexp is rejected. This is useful because
  ;; copyright-update is typically called from before-save-hook where
  ;; such an error is very inconvenient for the user.
  (error (message "Can’t update copyright: %s" err) nil)))

(defun copyright-find-end ()
  "Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years."
  (while (save-excursion
    (and (eq (following-char) ?),)
    (progn (forward-char 1) t)
    (progn (skip-chars-forward "$ \t") (eolp))
    comment-start-skip
    (save-match-data
      (forward-line 1)
      (and (looking-at comment-start-skip)
        (goto-char (match-end 0))))
    (looking-at-p copyright-years-regexp))))
  (forward-line 1)
  (re-search-forward comment-start-skip)
  ;; (2) Need the extra $( | ) so that the years are subexp 3, as
  ;; they are at note (1) above.
  (re-search-forward (format "$\(|%s\)" copyright-years-regexp))))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
  (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
    (substring copyright-current-year -2))
    (if (or noquery
      (save-window-excursion
        (switch-to-buffer (current-buffer))
      )
    )
  )
;; Fixes some point-moving oddness (bug#2209).
(save-excursion
(y-or-n-p (if replace
    (concat "Replace copyright year(s) by "
    copyright-current-year "? ")
(concat "Add " copyright-current-year
    " to copyright? ")))))
(if replace
    (replace-match copyright-current-year t t nil 3)
(let ((size (save-excursion (skip-chars-backward "0-9"))))
  (if (and (eq (% (- (string-to-number copyright-current-year)
    (string-to-number (buffer-substring
      (+ (point) size)
      (point))))
    100)
      1)
    (or (eq (char-after (+ (point) size -1)) ?-)
        (eq (char-after (+ (point) size -2)) ?-)))
  ;; This is a range so just replace the end part.
  (delete-char size)
  ;; Insert a comma with the preferred number of spaces.
  (insert
    (save-excursion
      (if (re-search-backward "[0-9]\( *, *\)[0-9]" (line-beginning-position) t)
        (match-string 1)
        ", ")))
  ;; If people use the '91 '92 '93 scheme, do that as well.
  (if (eq (char-after (+ (point) size -3)) ?)
    (insert '))
  ;; Finally insert the new year.
  (insert (substring copyright-current-year size)))))))
:::###autoload
(defun copyright-update (&optional arg interactivep)
  "Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*Pnd")
(when (or copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
    (and (eq (copyright-query 'function) interactivep))))
    (save-excursion
      (save-restriction
        ;; If people use the '91 '92 '93 scheme, do that as well.
        (if (eq (char-after (+ (point) size -3)) ?)
          (insert '?))
        ;; Finally insert the new year.
        (insert (substring copyright-current-year size)))))
:::###autoload
(defun copyright-update (&optional arg interactivep)
  "Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*Pnd")
(when (or copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
    (and (eq (copyright-query 'function) interactivep))))
    (save-excursion
      (save-restriction
        ;; If people use the '91 '92 '93 scheme, do that as well.
        (if (eq (char-after (+ (point) size -3)) ?)
          (insert '?))
        ;; Finally insert the new year.
        (insert (substring copyright-current-year size)))))
:::###autoload
(defun copyright-update (&optional arg interactivep)
  "Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*Pnd")
(when (or copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
    (and (eq (copyright-query 'function) interactivep))))
    (save-excursion
      (save-restriction
        ;; If people use the '91 '92 '93 scheme, do that as well.
        (if (eq (char-after (+ (point) size -3)) ?)
          (insert '?))
        ;; Finally insert the new year.
        (insert (substring copyright-current-year size)))))
;; If names-regexp doesn't match, we should not mess with
;; the years _or_ the GPL version.
;; TODO there may be multiple copyrights we should update.
(when (copyright-find-copyright)
  (copyright-update-year arg noquery)
  (goto-char (copyright-start-point))
  (and copyright-current-gpl-version
   ;; Match the GPL version comment in .el files.
   ;; This is sensitive to line-breaks. :(
   (copyright-re-search
    "the Free Software Foundation[,\n\n\(\[0-9\]+\)\(?: of the License\)?, or\[\n\].*any later version"
    (copyright-limit) t)
   ;; Don't update if the file is already using a more recent
   ;; version than the "current" one.
   (< (string-to-number (match-string 1))
    (string-to-number copyright-current-gpl-version))
   (or noquery
    (save-match-data
     (goto-char (match-end 1))
     (save-window-excursion
      (switch-to-buffer (current-buffer))
      (y-or-n-p
       (format "Replace GPL version %s with version %s? 
       "
       (match-string-no-properties 1)
       copyright-current-gpl-version))))))
  (replace-match copyright-current-gpl-version t t nil 1)))))
(set (make-local-variable 'copyright-update) nil)))

;; If a write-file-hook returns non-nil, the file is presumed to be written.

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;;###autoload
(defun copyright-fix-years ()
  "Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
  (let ((s (match-beginning 3))
    (p (make-marker))
    ;; Not line-beg-pos, so we don't mess up leading whitespace.
    (cpystart (match-beginning 0))
    e last sep year prev-year first-year range-start range-end)
  ;; In case years are continued over multiple, commented lines.
;;; (let ((fill-prefix "   "))
  ;; TODO do not break copyright owner over lines.
  (fill-region (point-min) (point-max)))
(setq-marker e nil)
(setq-marker p nil))
  ;; Simply reformatting the years is not copyrightable, so it does
  ;; not seem right to call this. Also it messes with ranges.
  ;;(copyright-update nil t))
  (message "No copyright message"))

;;;###autoload
(define-skeleton copyright
"Insert a copyright by $ORGANIZATION notice at cursor."
"Company: "
(comment-start
"Copyright (C) " `(format-time-string "%Y") " by "
(or (getenv "ORGANIZATION")
  str)
'(if (copyright-offset-too-large-p)
    (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.").))
(comment-end \n)

;;; TODO: recurse, exclude COPYING etc.
;;;###autoload
(defun copyright-update-directory (directory match &optional fix)
  "Update copyright notice for all files in DIRECTORY matching MATCH. If FIX is non-nil, run `copyright-fix-years' instead."
(interactive "DDirectory: 
MFilenames matching (regexp): ")
(dolist (file (directory-files directory t match nil))
  (unless (file-directory-p file)
    (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
    (let ((enable-local-variables :safe)
      (enable-local-eval nil))
      (find-file file))
    (let ((inhibit-read-only t))
      (if fix
        (copyright-fix-years)
        (copyright-update)))
      (save-buffer)
      (kill-buffer (current-buffer))))

(provide 'copyright)

;;; For the copyright sign:
;;; Local Variables:
;;; coding: utf-8
;;; End:
NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format:
"Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, e.g. the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is
that any file with less than 15 lines of actual content is trivial. If
a file is auto-generated (eg ldefs-boot.el) from another one in the
repository, then it does not really matter about adding a copyright
statement to the generated file.

Legal advice says that we could, if we wished, put a license notice
even in trivial files, because copyright law in general looks at the
overall work as a whole. It is not _necessary_ to do so, and rms
prefers that we do not. This means one needs to take care that trivial
files do not grow and become non-trivial without having a license
added. NB consequently, if you add a lot of text to a small file,
consider whether your changes have made the file worthy of a copyright
notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial
file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see
file "years" in this directory). The PDF versions of refcards etc
should display copyright notices (an exception to the rule about
"generated" files), but these can just display the latest year. The
full list of years should be kept in comments in the source file. If
these are distributed in the repository, check in a regenerated
version when the tex files are updated.

Copyright changes should be propagated to any associated repositories
(eg Gnus, MH-E), but I think in every case this happens automatically
(?).

All README (and other such text files) that are non-trivial should
contain copyright statements and GPL license notices, exactly as .el
files do (see e.g. README in the top-level directory). Before 2007,
we used a simple, short statement permitting copying and modification
provided legal notices were retained. In Feb 2007 we switched to the
standard GPL text, on legal advice. Some older text files in etc/
should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded
in a README file in each directory with images. (Legal advice says
that we need not add notices to each image file individually, if they
allow for that.). It is recommended to use the word "convert" to
describe the automatic process of changing an image from one format to

When installing a file with an "unusual" license (after checking first
it is ok), put a copy of the copyright and license in the file (if
possible. It's ok if this makes the file incompatible with its
original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

lisp/version.el   # emacs-copyright
lib-src/ebrowse.c # version
lib-src/etags.c   # print_version
lib-src/rcs2log   # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright' in admin.el will do all the above.

aclocal.m4
configure
m4/*.m4
  - copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

def/fincards/*.tex
also update the \def\year macro for the latest year.

def/ord-here
- doesn't need a humorless disclaimer, because Karl Fogel says we
can consider it part of Emacs, and he has a blanker disclaimer for
Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug",
2007028)

def/letter.pbm, letter.xpm
- trivial, no notice needed.

def/FTP, ORDERS
- trivial (at time of writing), no license needed

def/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT,
WHY-FREE
rms: "These are statements of opinion or testimony. Their licenses
should permit verbatim copying only. Please don't change the
licenses that they have. They are distributed with Emacs but they
are not part of Emacs."

def/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of
Emacs (and written by those with assignments), a standard notice is
fine.

def/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QJ-b5.tit, QJ.tit,
SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns,
pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.
leim/SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold. After some investigation in Feb 2007, then to the best of our knowledge we believe that the original 1984 Emacs version was based on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5c55845a640a9>
I have received enough requests for the current source to ctags to post it. Here is the latest version (what will go out with 4.3, modulo any bugs fixed during the beta period). It is the 4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources:
<http://groups.google.com/group/net.sources/msg/a21b6c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the University of California and a revised BSD license. The terms of this require that the full license details be available in binary distributions - hence the file etc/ETAGS.README. The fact that the --version output just says "Copyright <year> FSF" is apparently OK from a legal point of view.

lisp/cedet/semantic/imenu.el
- See http://lists.gnu.org/archive/html/emacs-devel/2010-03/msg00410.html in which Eric Ludlam established that the remaining contributions from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe (2007/1) there is no problem with our use of the name "tetris" or the concept. rms: "My understanding is that game rules as such are not copyrightable." <http://lists.gnu.org/archive/html/emacs-devel/2007-01/msg00960.html>
rms: Legal advice is that we are ok and need not worry about this.

lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/
rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.
As of Feb 2007, the following files are considered too trivial for
notices: lwlib-xaw.h, lwlib-xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as
that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw
files, which did not appear till Athena support was added in Lucid
Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later,
but by Lucid Emacs 19.8, lwlib.c and x1wmenu.c had been switched to v2
or later. These are the versions that were first installed in Emacs.
So in GNU Emacs, these two files have been under v2 or later since
1994.

It seems that it was the intention of Lucid to use v1 or later
(excepting the two files mentioned previously); so this is the license
we have used when adding notices to code that did not have notices
originally. Although we have the legal right to switch to v2 or later,
rms prefers that we do not do so.

doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*/texi - All manuals should be under GFDL (but see below), and
should include a copy of it, so that they can be distributed
separately. FAQ.texi has a different license, for some reason no-one
can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with
FSF (reconfirmed by rms Aug 25 2008). Discussion with
licensing@fsf.org starting on Thu, 07 Aug 2003 with subject:
"[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie.
Leave the copyrights alone. Leave the Eli Zaretskii copyright in
is_exec.c alone. See the msdos/README file for the legal history of
these files.

msdos/sed*.inp - These files are copyright FSF and distributed under
an MIT-like license.

oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the
licenses into the files. Note that the original X10.h did not use
copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diffing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"):  

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glibc three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:

<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.
src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

dlisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

  I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

  Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

Matt Norwood advised:

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember anything about it. If I put it in without other comment, then probably I wrote it myself."

Someone might want to tweak the copyright years (for dates before
Note: erring on the side of caution, I also added notices to some files I thought might be considered non-trivial (if one includes comment) in s/:
   aix4-1.h hpux10.h irix6-5.h
   sol2.h

everything with > 30 non-blank lines, which at least is _some_ kind of system)

*** These are copyright issues that need not be fixed until after Emacs 22 is released (though if they can be fixed before, that is obviously good):

Is it OK to just `bzr remove' a file for legal reasons, or is something more drastic needed? A removed file is still available from the repository, if suitable options are applied. (This issue obviously does not affect a release).
   rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
   - Restore if find legal info. emacs21.ico is not due to Davenport.
   Geoff Voelker checked but could not find a record of where it came from.

   etc/images
   Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will contact image authors in regards to future switch to v3.

   etc/TUTORIAL* (translations)
   switch to GPL (see english TUTORIAL)
   rms: "We can leave the TUTORIAL translations alone until their maintainers update them."
   Can adapt short license text from end of GPL translations at:
   http://www.gnu.org/licenses/translations.html
   Only a few sentences around the license notice need changing from previous version.
   Done: TUTORIAL.eo
*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg those included from Gnulib). These are all copyright FSF and (at time of writing) GPL >= 2. rms says may as well leave the licenses of these alone (may import them from Gnulib again). These are:

   Gnulib:
   build-aux/compile
   build-aux/config.guess
   build-aux/config.sub
   build-aux/decomp
   build-aux/missing
   build-aux/move-if-change
   build-aux/snippet/_Noreturn.h
   build-aux/snippet/arg-nnonnull.h
   build-aux/snippet/c++defs.h
   build-aux/snippet/warn-on-use.h
   doc/man/texinfo.tex
   lib/*.[ch]
   lib/gnulib.mk
   src/gmalloc.c
   src/termcap.c
   src/tparam.c

   Note _not_ included in the above are src/regex.{c,h} (rms: "That forked version is only in Emacs, so definitely relicense that."), and oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be and were updated, ditto the oldXMenu files with FSF copyright, and msdos/is_exec.c and sigaction.c.

3. lwlib/
Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc.), ie remain under GPL v1 or later, or v2 or later. (rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

leim/MISC-DIC/CTLau-b5.html  >= v2
leim/MISC-DIC/CTLau.html     >= v2
   (above included in lisp/international/titdic-cnv.el)
leim/MISC-DIC/pinyin.map      >= v1
leim/MISC-DIC/ziranma.cin     >= v1
leim/SKK-DIC/SKK-JISYO.L      >= v2
leim/SKK-DIC/README           >= v2
leim/ja-dic/ja-dic.el         >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

etc/images/gnus/README
etc/images/mail/README
etc/images/README
nt/icons/README

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(For more information about the GNU project and free software, look at the files `GNU', `COPYING', and `DISTRIB', in the same directory as this file.)

Why Software Should Be Free

by Richard Stallman
(Version of April 24, 1992)

Copyright (C) 1991, 1992, Free Software Foundation, Inc.
Verbatim copying and redistribution is permitted
without royalty; alteration is not permitted.

Introduction
************

The existence of software inevitably raises the question of how
decisions about its use should be made. For example, suppose one
individual who has a copy of a program meets another who would like a
copy. It is possible for them to copy the program; who should decide
whether this is done? The individuals involved? Or another party,
called the "owner"?

Software developers typically consider these questions on the
assumption that the criterion for the answer is to maximize developers'
profits. The political power of business has led to the government
adoption of both this criterion and the answer proposed by the
developers: that the program has an owner, typically a corporation
associated with its development.

I would like to consider the same question using a different
criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform
to ethics, not the other way around. Nor does current practice decide
this question, although it may suggest possible answers. The only way
to judge is to see who is helped and who is hurt by recognizing owners
of software, why, and how much. In other words, we should perform a
cost-benefit analysis on behalf of society as a whole, taking account of
individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show
that the results are detrimental. My conclusion is that programmers
have the duty to encourage others to share, redistribute, study and
improve the software we write: in other words, to write "free"
software.(1)

How Owners Justify Their Power
******************************

Those who benefit from the current system where programs are property
offer two arguments in support of their claims to own programs: the
emotional argument and the economic argument.
The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as 'making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

The Argument against Having Owners
****************************************************************************

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing
the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let’s apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use.(2) In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.
Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road--but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software
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Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.

* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people's ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.
The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

**Obstructing Use of Programs**

The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.
However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

Damaging Social Cohesion

Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, "Will I be permitted to use it?", his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States
is not technical innovation, but rather the willingness to work together for the public good. It makes no sense to encourage the former at the expense of the latter.

Obstructing Custom Adaptation of Programs

The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box--that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as `+' for addition and `-.' for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance (p0, p1)
    struct point p0, p1;
{
    float xdist = p1.x - p0.x;
    float ydist = p1.y - p0.y;
    return sqrt (xdist * xdist + ydist * ydist);
}
```

Here is the same program in executable form, on the computer I normally use:

```
1314258944 -232267772 -231844864 1634862
1411907592 -231844736 2159150 1420296208
-234880989 -234879837 -234879966 -232295424
1644167167 -3214848 1090581031 1962942495
572518958 -803143692 1314803317
```

Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will
execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm--to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to..."
tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development
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The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field--you can only stand on the shoulders of the other people *in your own company*.

The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers
It Does Not Matter How Sharing Is Restricted
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I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

Software Should be Free
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I have shown how ownership of a program--the power to restrict changing or copying it--is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow terms, but it is not what is good for society.

Why People Will Develop Software
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If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.
Programming is Fun

There are some lines of work that few will enter except for money; road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.

Funding Free Software

Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software
development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortiums shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry—an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that "free software" refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a
business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?
=================================

There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support developers without coercion, just as they have learned to support public radio and television stations.

What Is Software Productivity?
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If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software
productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards—competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves—when "Let the best
person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society's resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"

In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian
Communism, it is the software owners who are the Communists.

The Question of Premises
************************

I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves—regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in 'Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors."

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
**********

We like to think that our society encourages helping your neighbor;
but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

-------- Footnotes --------

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.
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