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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.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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From strings/apr_snprintf.c:

* cvt - IEEE floating point formatting routines.
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  *

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1.3 jackson-module-jaxb-annotations 2.9.5

1.4 gnutls 3.5.18-1ubuntu1.1
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### Constant-time SSSE3 AES core implementation.

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## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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1.5 libcap-ng 0.7.7-3.1

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

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

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

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

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fields:
  site: string
  author: root
```

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1.12 kerb-admin 1.1.0
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1.14 jetty-security 9.4.18.v20190429

1.15 json-java 20131018

1.16 spring-data-mongodb 2.2.4

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The specification of DOM Level 3’s various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/
The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

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1.20 lua 5.2.4-1.1build1

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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  * Fixed pickle support of some exceptions

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

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  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
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  * Support for non-ASCII header parameters

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  * 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

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  * 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 <jatherfold@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 <s6yygle3@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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Java ClassMate library was originally written by Tatu Saloranta (tatu.salaranta@iki.fi)

Other developers who have contributed code are:

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### 1.36 jakarta-annotation-api 1.3.4

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AES in libhcrypto

rijndaal-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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D3DES (V5.09) -

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

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

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1.55 JZlib 1.1.3

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* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZOutputStream.java
* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPHeader.java
* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-
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* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStream.java
* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Inflate.java
* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Adler32.java
* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflate.java

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* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStreamException.java
* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfTree.java
* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfCodes.java
* /opt/ws_local/PERMITS_SQL/1018364260_1591903087.49/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/StaticTree.java
1.56 scala-reflect 2.12.8

1.57 bzip2 1.0.6

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jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001
minibz2
libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

1.58 libgpg-error 1.27-6
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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.org/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
++int display_legal(pam_handle_t *pamh)
++{
++    int retval = PAM_IGNORE, rc;
++    char *user = NULL;
++    char *dir = NULL;
++    char *flag = NULL;
++    struct passwd *pwd = NULL;
++    struct stat s;
++    int f;
++    /* Get the user name to determine if we need to print the disclaimer */
++    rc = pam_get_item(pamh, PAM_USER, &user);
++    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
++    {
++        PAM_MODUTIL_DEF_PRIVS(privs);
++        /* Get the password entry */
++        pwd = pam_modutil_getpwnam (pamh, user);
++        if (pwd != NULL)
++        {
++            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
++                pam_syslog(pamh, LOG_ERR,
++                           "Unable to change UID to %d temporarily\n",
++                           pwd->pw_uid);
++                retval = PAM_SESSION_ERR;
++                goto finished;
++            }
++            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
++                goto finished;
++            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
++                goto finished;
++            if (stat(flag, &s) != 0)
++            {
++                display_file(pamh, "/etc/legal");
++                mkdir(dir, 0700);
++                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
++                        S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
++                if (f>=0) close(f);
++            }
++        }
++        /* Get the password entry */
++        pwd = pam_modutil_getpwnam (pamh, user);
++        if (pwd != NULL)
++        {
++            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
++                pam_syslog(pamh, LOG_ERR,
++                           "Unable to change UID to %d temporarily\n",
++                           pwd->pw_uid);
++                retval = PAM_SESSION_ERR;
++                goto finished;
++            }
++            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
++                goto finished;
++            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
++                goto finished;
++            if (stat(flag, &s) != 0)
++            {
++                display_file(pamh, "/etc/legal");
++                mkdir(dir, 0700);
++                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
++                        S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
++                if (f>=0) close(f);
++            }
++        }
++    }
++}
retval = PAM_SESSION_ERR;
}

_pam_drop(flag);
_pam_drop(dir);
}

return retval;
}

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+ return retval;
}

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1.66 libsemanage 2.7-2build2

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1.67 errors 0.8.1

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1.68 tomcat 9.0.30

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- javaee_web_services_1_3.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
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### 1.72 jackson 2.9.9

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### 1.73 jersey-apache-connector 2.25.1

### 1.74 python 3.6.9-1~18.04ubuntu1

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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<tr>
<td>2.1.1</td>
<td>2.1+2.0.1</td>
<td>2001</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.2</td>
<td>2.1.1</td>
<td>2002</td>
<td>PSF</td>
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<tr>
<td>2.1.3</td>
<td>2.1.2</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2 and above</td>
<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
</tr>
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</table>

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* https://github.com/eclipse-ee4j/jersey

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1.81 latencyutils 2.0.3

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1.82 snappy-java 1.1.7.3

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1.84 e2fsprogs 1.44.1 1ubuntu1.1
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This 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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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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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)
#

alld:: image

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

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

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$($(BSDLIB_INSTALL_DIR)/$(BSD_LIB))
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean: 
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
*/

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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/

From the original distribution:

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

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Theodore Ts'o
23-June-2007

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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                           
  uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
  int rcount;
  int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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1.92 libalgorithm-diff-perl 1.19.03-1

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=head1 NAME

Algorithm::Diff - Compute 'intelligent' differences between two files / lists
=head1 SYNOPSIS

require Algorithm::Diff;

# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
  next if $diff->Same();
  my $sep = "";
  if( ! $diff->Items(2) ) {
    printf "%d,%dd%d
",
      $diff->Get(qw( Min1 Max1 Max2 ));
  } elsif( ! $diff->Items(1) ) {
    printf "%da%d,%d
",
      $diff->Get(qw( Max1 Min2 Max2 ));
  } else {
    $sep = "---\n";
    printf "%d,%de%d,%d\n",
      $diff->Get(qw( Min1 Max1 Min2 Max2 ));
  }
  print "< \_
" for $diff->Items(1);
  print $sep;
  print "> \_
" for $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw(
  LCS LCS_length LCSidx
  diff sdiff compact_diff
  traverse_sequences traverse_balanced );

@lcs   = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@diffs = diff( \@seq1, \@seq2 );
I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the `longest common subsequence' method. In the LCS problem, you have two sequences of items:

```
<table>
<thead>
<tr>
<th>a b c d f g h j q z</th>
</tr>
</thead>
<tbody>
<tr>
<td>a b c d e f g i j k r x y z</td>
</tr>
</tbody>
</table>
```

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by
deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

\[a \ b \ c \ d \ f \ g \ j \ z\]

From there it’s only a small step to get diff-like output:

\[
\begin{align*}
e & \ h \ i \ k \ q \ r \ x \ y \\
+ & \ - \ + \ + \ - \ + \ + \ +
\end{align*}
\]

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that’s not always the case, especially when the two sequences have many repeated elements. For example, consider

\[
\begin{align*}
a \ b \ y \ c \ z \ p \ d \ q \\
a \ b \ c \ a \ x \ b \ y \ c \ z
\end{align*}
\]

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

\[
\begin{align*}
a \ x \ b \ y \ c \ & \ z \ p \ d \ q \\
a \ b \ c \ a \ & \ b \ y \ c \ z
\end{align*}
\]

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

\[
\begin{align*}
a \ x \ b \ y \ c \ z \ p \ d \ q \\
a \ b \ c \ a \ x \ b \ y \ c \ z
\end{align*}
\]

or

\[
\begin{align*}
a & \ x \ b \ y \ c \ z \ p \ d \ q \\
a & \ b \ c \ a \ x \ b \ y \ c \ z
\end{align*}
\]

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>,

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C<traverse_sequences>, and C<traverse_balanced>.
=head2 C<LCS>
Given references to two lists of items, LCS returns an array containing
their longest common subsequence. In scalar context, it returns a
reference to such a list.
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
C<LCS> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<LCS_length>
This is just like C<LCS> except it only returns the length of the
longest common subsequence. This provides a performance gain of about
9% compared to C<LCS>.
=head2 C<LCSidx>
Like C<LCS> except it returns references to two arrays. The first array
contains the indices into @seq1 where the LCS items are located. The
second array contains the indices into @seq2 where the LCS items are located.
Therefore, the following three lists will contain the same values:
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );
=head2 C<new>
$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );
C<new> computes the smallest set of additions and deletions necessary
to turn the first sequence into the second and compactly records them
in the object.

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You use the object to iterate over $\textit{hunks}$, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

[ ]  Encloses optional arguments  
:    Is followed by the default value for an optional argument  
|    Separates alternate return results

Method summary:

\[
\begin{align*}
$\text{obj} & = \text{Algorithm::Diff->new( } \backslash @\text{seq1}, \backslash @\text{seq2}, \{ \backslash \%\text{opts} \} ); \\
$\text{pos} & = \text{obj->Next( } [ $\text{count} : 1 ] ); \\
$\text{revPos} & = \text{obj->Prev( } [ $\text{count} : 1 ] ); \\
$\text{obj} & = \text{obj->Reset( } [ $\text{pos} : 0 ] ); \\
$\text{copy} & = \text{obj->Copy( } [ $\text{pos}, [ $\text{newBase} ] ] ); \\
$\text{oldBase} & = \text{obj->Base( } [ $\text{newBase} ] ); \\
$\text{bits} & = \text{obj->Diff( )}; \\
@\text{items}[\text{cnt} & = \text{obj->Same( )}]; \\
@\text{items}[\text{cnt} = \text{obj->Items( } $\text{seqNum} \) ]; \\
@\text{idxs}[\text{cnt} = \text{obj->Range( } $\text{seqNum}, [ $\text{base} ] ); \\
$\text{minIdx} & = \text{obj->Min( } $\text{seqNum}, [ $\text{base} ] ); \\
$\text{maxIdx} & = \text{obj->Max( } $\text{seqNum}, [ $\text{base} ] ); \\
@\text{values} & = \text{obj->Get( } @\text{names} );
\end{align*}
\]

Note that all of the following methods C<\text{die}> if used on an object that is "reset" (not currently pointing at any hunk).

\[
\begin{align*}
\text{$\text{bits}$} & = \text{obj->Diff( )}; \\
\text{@items}[\text{cnt} & = \text{obj->Same( )}]; \\
\text{@items}[\text{cnt} = \text{obj->Items( } $\text{seqNum} \) ]; \\
\text{@idxs}[\text{cnt} = \text{obj->Range( } $\text{seqNum}, [ $\text{base} ] ); \\
\text{$\text{minIdx}$} & = \text{obj->Min( } $\text{seqNum}, [ $\text{base} ] ); \\
\text{$\text{maxIdx}$} & = \text{obj->Max( } $\text{seqNum}, [ $\text{base} ] ); \\
\text{@values} & = \text{obj->Get( } @\text{names} );
\end{align*}
\]

Passing in C<\text{undef}> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

\[
\begin{align*}
\text{$\text{pos} = \text{diff->Next()}$} & : \text{# Move forward 1 hunk} \\
\text{$\text{pos} = \text{diff->Next( 2 )$} } & : \text{# Move forward 2 hunks} \\
\text{$\text{pos} = \text{diff->Next(-5)$} } & : \text{# Move backward 5 hunks}
\end{align*}
\]

C<\text{Next}> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<\text{Next()}> moves to the first hunk.

C<\text{Next}> returns a true value iff the move didn't go past the last hunk.
So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$diff->Reset(); # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);   # Move to the first hunk
$diff->Reset(-1);  # Move to the last hunk

C<Reset> returns the object, so, for example, you could use C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:
$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

$copy = $diff->Copy(0);

$copy = $diff->Copy()->Reset();

=item C<Diff>

<bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back
=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>

$count = $diff->Items(2);
@items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then C<< $diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();

=item C<Range>

$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];

=item C<Base>

$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^(-?\d+)?(min|max)[12]/
/^((range[12])|same|diff|base)/

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).
Given a reference to a list of items, \texttt{prepare} returns a reference to a hash which can be used when comparing this sequence to other sequences with \texttt{LCS} or \texttt{LCS\_length}.

\[
\texttt{$prep = \text{prepare} (\@seq1 ;) ;}
\]
\[
\text{for } \texttt{$i (0 .. 10_000 )}
\]
\[
\{ \\
\texttt{\@lcs = LCS( $prep, $seq[$i] );} \\
\texttt{# do something useful with @lcs}
\}
\]

\texttt{prepare} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function. See \texttt{L/KEY GENERATION\_FUNCTIONS}.

\[
\texttt{$prep = \text{prepare} (\@seq1, \&\text{keyGen} ;) ;}
\]
\[
\text{for } \texttt{$i (0 .. 10_000 )}
\]
\[
\{ \\
\texttt{\@lcs = LCS( $seq[$i], $prep, \&\text{keyGen} );} \\
\texttt{# do something useful with @lcs}
\}
\]

Using \texttt{prepare} provides a performance gain of about 50\% when calling LCS many times compared with not preparing.

\[
=\text{head2 } \texttt{diff}
\]

\[
\texttt{@diffe s = diff( \@seq1, \@seq2 );}
\]
\[
\texttt{$\text{diffs\_ref } = \text{diff}(\@seq1, \@seq2 );}
\]

\texttt{diff} computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of \texttt{hunks}; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of \texttt{diff} is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling \texttt{diff} for the following two sequences:

\[
\texttt{a b c e h j l m n p}
\]
would produce the following list:

```
(  
  [ [ '>', 0, 'a' ] ],
  [ [ '+', 2, 'd' ] ],
  [ [ '>', 4, 'h' ],
    [ '+', 4, 'f' ] ],
  [ [ '+', 6, 'k' ] ],
  [ [ '>', 8, 'n' ],
    [ '>', 9, 'p' ],
    [ '+', 9, 'r' ],
    [ '+', 10, 's' ],
    [ '+', 11, 't' ] ],
)
```

There are five hunks here. The first hunk says that the C<a> at position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

```perl
    @sdiffs = sdiff( $@seq1, $@seq2 );
    $sdiffs_ref = sdiff( $@seq1, $@seq2 );
```

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

```
  same     same
 before    after
 old < -
 - > new
```
It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
  a b c e h j l m n p
  b c d e f j k l m r s t
```

results in

```
  ( [ '-', 'a', ''  ],
   [ 'u', 'b', 'b'  ],
   [ 'u', 'c', 'c'  ],
   [ '+', '',  'd'  ],
   [ 'u', 'e', 'e'  ],
   [ 'c', 'h', 'f'  ],
   [ 'u', 'j', 'j'  ],
   [ '+', '',  'k'  ],
   [ 'u', 'l', 'l'  ],
   [ 'u', 'm', 'm'  ],
   [ 'c', 'n', 'r'  ],
   [ 'c', 'p', 's'  ],
   [ '+', '',  't'  ] )
```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```
  my @a = qw( a b c e h j l m n p  );
  my @b = qw( b c d e f j k l m r s t );
```
@cdiff = compact_diff( \@a, \@b );

# Returns:
#   @a      @b       @a       @b
#  start   start   values   values
#  (    0,      0,   #       =
#   0,      0,   #    a  !
#   1,      0,   #  b c = b c
#   3,      2,   #       !  d
#   3,      3,   #    e  =  e
#   4,      4,   #    f  !  h
#   5,      5,   #    j  =  j
#   6,      6,   #    k
#   6,      7,   #  l m =  l m
#   8,      9,   #       !  r s t
#  10,     12,   #
#  );

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items $diff[0]$ through $diff[2]$ - 1 of the first sequence and contains items $diff[1]$ through $diff[3]$ - 1 of the second sequence.

In other words, the first hunk consists of the following two lists of items:

#  1st pair     2nd pair
# of indices   of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.
By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don’t begin with the same value, the first hunk in our example is empty (otherwise we’d violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 (‘a’) from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
```
You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 traverse_sequences

`traverse_sequences` used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. `traverse_sequences` will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements \$A[i] and \$B[j] which are equal and which are part of the LCS, there will be some moment during the execution of `traverse_sequences` when arrow A is pointing to \$A[i] and arrow B is pointing to \$B[j]. When this happens, `traverse_sequences` will call the `MATCH` callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. `traverse_sequences` will advance that arrow and will call the `DISCARD_A` or the `DISCARD_B` callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then `traverse_sequences` will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to `traverse_sequences` are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```perl
traverse_sequences(
    \@seq1, \@seq2,
    \{ MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    \}
);
```

Note that this third hunk contains unchanged items as our convention demands.
Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, `C<traverse_sequences>` will call the C<A_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call C<DISCARD_B> instead. Similarly if arrow B finishes first.

`C<traverse_sequences>` returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure.

At present there is no way to fail.

`C<traverse_sequences>` may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```
traverse_sequences(
 \@seq1, \@seq2,
 {   MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
   },
   undef,   # default key-gen
   $myArgument1,
   $myArgument2,
   $myArgument3,
);
```

`C<traverse_sequences>` does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse_balanced>

`C<traverse_balanced>` is an alternative to `C<traverse_sequences>`. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes
as insertions and deletions only, it will jump back and forth between
the two sequences and report I<changes> occurring as deletions on one
side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C.MATCH> callbacks
supported by C<traverse_sequences>, C<traverse_balanced> supports
a C<CHANGE> callback indicating that one element got C<replaced> by another:

traverse_balanced(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
        CHANGE => $callback_4,
    }
);

If no C<CHANGE> callback is specified, C<traverse_balanced>
will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions,
therefore resulting in a similar behaviour as C<traverse_sequences>
with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>,
noticeable only while processing huge amounts of data.

The C<sdiff> function of this module
is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to
plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a
CODE reference to a key generating (hashing) function that should return
a string that uniquely identifies a given element. It should be the
case that if two elements are to be considered equal, their keys should
be the same (and the other way around). If no key generation function
is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys
using the default stringizing operator """".

Where this is important is when you're comparing something other than
strings. If it is the case that you have multiple different objects
that should be considered to be equal, you should supply a key
generation function. Otherwise, you have to make sure that your arrays
contain unique references.
For instance, consider this example:

```perl
package Person;

sub new
{
    my $package = shift;
    return bless { name => '', ssn => '', @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

```perl
define my $array1 = [ $person1, $person2, $person4 ];
define my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::difff ($array1, $array2 );
```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```perl
define my $array1 = [ $person1, $person2, $person4 ];
define my $array2 = [ $person1, $person3, $person4->clone() , $person5 ];
Algorithm::Diff::difff ($array1, $array2 );
```

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```perl
define my $array1 = [ $person1, $person2, $person4 ];
```
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and
so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function
if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference,
they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

=head1 LICENSE

Parts Copyright (c) 2000-2004 Ned Konz. All rights reserved.
Parts by Tye McQueen.

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

=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing
list for announcements related to diff and Algorithm::Diff, send an
empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from
Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko
<mario@wolczko.com>, which is available at
ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/Manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli
<m@perlmeister.com>.
The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).
The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1-19-03-orig-targz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1-19-03-orig-targz/Algorithm-Diff-1.1903/diffnew.pl
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl -w
#
# 'Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff` format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";

ENDUSAGE
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
-c will do a context diff with 3 lines of context
-C will do a context diff with 'lines' lines of context
-u will do a unified diff with 3 lines of context
-U will do a unified diff with 'lines' lines of context

ENDUSAGE

g getopt('U:C:cu') or bag("usage");
bag("usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = ""; # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = ""; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2$t", scalar localtime($st->mtime), "\n";

my ($Shunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $Spiece (@$diffs) {
    $Shunk = new Hunk ($Spiece, $Context_Lines);
    next unless $oldhunk;
    if ($Shunk->does_overlap($oldhunk)) {
        $Shunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(\@f1, \@f2);
    }
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
    package Hunk;

    sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks  - a list of Block objects
# start   - index in file 1 where first block of the hunk starts
# end     - index in file 1 where last block of the hunk ends

}
my ($class, $piece, $context_items) = @_;  

my $block = new Block ($piece);  # this modifies $FLD!

my $before_diff = $File_Length_Difference;  # BEFORE this hunk
my $after_diff  = $before_diff + $block->["length_diff"];  
$File_Length_Difference += $block->["length_diff"];  

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0]->"item_no" : -1;
$a2 = @remove_array ? $remove_array[-1]->"item_no" : -1;
$b1 = @insert_array ? $insert_array[0]->"item_no" : -1;
$b2 = @insert_array ? $insert_array[-1]->"item_no" : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1   = $a2 == -1 ? $b2 - $after_diff  : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2   = $b2 == -1 ? $a2 + $after_diff  : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
  "start1" => $start1,
  "start2" => $start2,
  "end1" => $end1,
  "end2" => $end2,
  "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, @context_items) = @_;  
    return unless @context_items; # no context

    # add context before
    my $start1 = $hunk->{"start1"};
    my $num_added = @context_items > $start1 ? $start1 : @context_items;
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};
    $num_added = ($end1+$context_items > $#f1) ? $#f1 - $end1 : $context_items;
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;  
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
            $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn’t updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;  

    $hunk->{"start1"} = $oldhunk->{"start1"};
    $hunk->{"start2"} = $oldhunk->{"start2"};

    unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"}
}
sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_;  
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@\n";

    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a '-' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*---don't take
    # removed items into account.
    my $low = $hunk->{"start1"};
    my $hi = $hunk->{"end1"};
    my ($num_added, $num_removed) = (0,0);
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/ /} @outlist; # assume it's just context
    foreach my $block (@{$hunk->{"blocks"}}) {
        foreach my $item ($block->remove) {
            my $op = $item->{"sign"}; # -
            my $offset = $item->{"item_no"} - $low + $num_added;
            $outlist[$offset] =~ s/^/$op/;  
            $num_removed++;
        }
        foreach my $item ($block->insert) {
            my $op = $item->{"sign"}; # +
            my $i = $item->{"item_no"};
            my $offset = $i - $hunk->{"start2"} + $num_removed;
            splice(@outlist,$offset,0, "$op$$fileref2[$i]";
            $num_added++;
        }
    }
    map {s/$/
/} @outlist; # add \n's
    print @outlist;
}

sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_;  
    my @blocklist;

    foreach my $block (@{$hunk->{"blocks"}}) {
        foreach my $item ($block->remove) {
            my $op = $item->{"sign"}; # -
            my $offset = $item->{"item_no"} - $low + $num_added;
            $outlist[$offset] =~ s/^/$op/;  
            $num_removed++;
        }
        foreach my $item ($block->insert) {
            my $op = $item->{"sign"}; # +
            my $i = $item->{"item_no"};
            my $offset = $i - $hunk->{"start2"} + $num_removed;
            splice(@outlist,$offset,0, "$op$$fileref2[$i]";
            $num_added++;
        }
    }
    map {s/$/
/} @outlist; # add \n's
    print @outlist;
}

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# Calculate item number range.
my $range1 = $hunk->context_range(1);
my $range2 = $hunk->context_range(2);

# Print out file 1 part for each block in context diff format if there are
# any blocks that remove items
print "***** $range1 *****\n";
my $low = $hunk->"start1";
my $hi = $hunk->"end1";
if (@blocklist = grep {$_->remove} @{$hunk->"blocks"}) {
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/  /} @outlist; # assume it's just context
    foreach my $block (@blocklist) {
        my $op = $block->op; # - or !
        foreach my $item ($block->remove) {
            $outlist[$item->"item_no" - $low] =~ s/^ /$op/;
        }
    }
    map {s/$/\n/} @outlist; # add \n's
    print @outlist;
}

print "--- $range2 ----\n";
$low = $hunk->"start2";
$hi = $hunk->"end2";
if (@blocklist = grep {$_->insert} @{$hunk->"blocks"}) {
    my @outlist = @$fileref2[$low..$hi];
    map {s/^/  /} @outlist; # assume it's just context
    foreach my $block (@blocklist) {
        my $op = $block->op; # + or !
        foreach my $item ($block->insert) {
            $outlist[$item->"item_no" - $low] =~ s/^ /$op/;
        }
    }
    map {s/$/\n/} @outlist; # add \n's
    print @outlist;
}

sub context_range {
    # Generate a range of item numbers to print. Only print 1 number if the range
    # has only one item in it. Otherwise, it's 'start,end'
    my ($hunk, $flag) = @_;  
    my ($start, $end) = ($hunk->"start$flag",$hunk->"end$flag");
    if ($start < $end) {
        my $range = "$start,$end";
    } else {
        my $range = $end;
    }
}
return $range;
}
sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $length = $end - $start + 1;
my $first = $length < 2 ? $end : $start; # strange, but correct...
my $range = $length== 1 ? $first : "$first,$length";
return $range;
}
} # end Package Hunk
# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign
- '+' for insert, '-' for remove
# item_no - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;
my @changes = ();
# This just turns each change into a hash.
foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = {"sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}
my $block = { "changes" => \@changes };
bless $block, $class;
$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

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# LOW LEVEL FUNCTIONS
sub op {
    # what kind of block is this?
    my $block = shift;
    my $insert = $block->insert;
    my $remove = $block->remove;

    $remove && $insert and return '!';
    $remove and return '-';
    $insert and return '+';
    warn "unknown block type";
    return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }
} # end of package Block

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1.19-03-orig-targ.gz/Algorithm-Diff-1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
    - unknown
build_requires:
    ExtUtils::MakeMaker: '0'
configure_requires:
    ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Algorithm-Diff
no_index:
directory:
    - t
- inc
requires: {}
version: '1.1903'

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1-19-03-orig-targ.gz/Algorithm-Diff-1.1903/META.yml
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp (@f1 = <F1>);
close F1;
chomp (@f2 = <F2>);
close F2;

$diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {
    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%d$sign %s\n", $lineno+1, $text;
    }
    print "--------\n";
}
exit 1;

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1030464899_1591846656.2/0/libalgorithm-diff-perl-1-19-03-orig-tar-
gz/Algorithm-Diff-1.1903/diff.pl

1.93 gnutls 3.5.18-1ubuntu1.3

1.93.1 Available under license :

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Version 3, 29 June 2007

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1.113 dropwizard-validation 1.3.2

1.114 tomcat-util-scan 9.0.13

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1.116 jetty-security 9.4.10.v20180503

1.117 jbig-kit 2.1-3.1build1

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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1.119 jetty-client 9.4.18.v20190429

1.120 jetty-http 9.4.16.v20190411

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The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.  
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* javax.servlet:javax.servlet-api
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* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
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Apache

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/streasts/HeaderEnricher.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/TopicBuilder.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/requestreply/AggregatingReplyingKafkaTemplate.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/ConsumerRecordRecoverer.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/reactive/ReactiveKafkaConsumerTemplate.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/JacksonMimeTypeModule.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/convertor/JsonMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/AbstractConsumerSeekAware.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/reactive/ReactiveKafkaProducerTemplate.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/serialzer/FailedDeserializationInfo.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/TopicPartitionOffset.java

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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/ContainerStoppingBatchErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/RemainingRecordsErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/JacksonPresent.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/StreamsBuilderFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/SeekToCurrentBatchErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/ConsumerAwareBatchErrorListener.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/ConsumerAwareRebalanceErrorListener.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/SeekToCurrentBatchErrorListener.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/transaction/KafkaTransactionManager.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/ContainerStoppingErrorListener.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/ConsumerAwareErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/ContainerStoppingErrorHandler.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources.jar/org/springframework/kafka/connector/KafkaListenerContainerFactory.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources.jar/org/springframework/kafka/connector/KafkaListenerContainerFactory.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources.jar/org/springframework/kafka/connector/KafkaListenerContainerFactory.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources.jar/org/springframework/kafka/connector/KafkaListenerContainerFactory.java
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1.126 libpsl 0.19.1-5build1

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1.128 api-ldap-extras-trigger 1.0.0

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1.129 kubernetes-client 4.6.3

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1.130 protobuf-javanano 3.0.0-alpha-5

1.131 netty-handler 4.1.45

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb5b6.

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>

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

1.136 libxslt 1.1.29 5ubuntu0.2
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  jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisConnectionFactoryFactory.java
  */opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
  jar/org/springframework/boot/autoconfigure/session/MongoSessionConfiguration.java
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  jar/org/springframework/boot/autoconfigure/configure/data/mongo/MongoClientDependsOnBeanFactoryPostProcessor.java
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  jar/org/springframework/boot/autoconfigure/security/oauth2/resource/package-info.java
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1.148 jackson-dataformat-yaml 2.8.9

1.148.1 Available under license:

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1.149 kerb-client 1.1.0

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1.151 metrics-jvm 4.0.2

1.152 micrometer-registry-prometheus 1.3.2
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1.153 jackson-annotations 2.9.9

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

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

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

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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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```

```
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NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

SYNOPSIS

use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!
"
$fs->lock( $fh, F_SETLK )
    or print "Locking failed: ". $fs->error . "\n"
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
    or print "Unlocking failed: ". $fs->error . "\n";

DESCRIPTION
File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:

$sfs = new File::FcntlLock;

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use
```perl
$fs = new File::FcntlLock(
    l_type   => F_WRLCK,
    l_whence => SEEK_SET,
    l_start  => 0,
    l_len    => 100 );

if you intend to obtain a write lock for the first 100 bytes of a file.

=head2 Object properties

Once the object simulating the flock structure has been created
the following methods allow to query and, in most cases, to also
modify its properties.

=item C<l_type()>

If called without an argument the method returns the current setting
of the lock type, otherwise the lock type is set to the argument's value
which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock,
write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence>
property of the flock object, determining if the L<l_start> value
is relative to the start of the file, to the current position in
the file or to the end of the file. These values are C<SEEK_SET>,
C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>).
If called with no argument the current value of the property is
returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file
according to the mode selected by the L<l_whence> member. See also
the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file
to be locked. A value of 0 is interpreted to mean a lock, starting at
C<l_start>, to the end of the file. E.g., a lock obtained with
L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set
```
to 0 locks the complete file.

According to SUSv3 support for negative values for L<l_len> are permitted, resulting in a lock ranging from C<l_start+l_len> up to and including C<l_start-1>. But not all systems support negative values for L<l_len> and will return an error when you try to obtain such a lock, so please read the L<fcntl(2)> man page of the system carefully for details.

=item C<l_pid()>

If a call of the L<lock()> method with C<F_GETLK> indicates that another process is holding the lock (in which case the L<l_type> property will be either C<F_WRLCK> or C<F_RDLCK>) a call of the L<l_pid()> method returns the PID of the process holding the lock. This method does not accept any arguments.

=head2 Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the L<lock()> method:

=over 4

=item C<lock()>

This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock and thus File::FcntlLock::XS (B<but neither> File::FcntlLock::Pure B<nor> File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

$fs->lock( $fh, F_SETLK );

There are three values that can be used as the second argument:

=over 4

=item C<F_SETLK>

With C<F_SETLK> the L<lock()> method tries to obtain a lock (when L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it (if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or
C<EAGAIN> (please see the the man page for L<fcntl(2)> for more
details).

=item C<F_SETLKW>

is similar to C<F_SETLK>, but instead of returning an error if the
lock can't be obtained immediately it puts the calling process to
sleep, i.e., it blocks, until the lock is obtained at some later
time. If a signal is received while waiting for the lock the
method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<F_GETLK>

With C<F_GETLK> the L<lock()> method determines if and which process
currently is holding the lock. If there's no other lock the L<l_type>
property will be set to C<F_UNLCK>. Otherwise the flock structure object
is set to the values that would prevent us from obtaining a lock. There
may be several processes that keep us from getting a lock, including
some that themselves are blocked waiting to obtain a lock. C<F_GETLK>
will only make details of one of these processes visible, and one has
no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true",
i.e., a value that is true in boolean but 0 in numeric context. If
the method fails (as indicated by an C<undef> return value) you can
either immediately evaluate the error number (using $!, $ERRNO or
$OS_ERROR) or check for it via the methods discussed below at some
later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand
and File::FcntlLock::Pure and File::FcntlLock::Inline on the other,
due to the first calling the system function L<fcntl(2)> directly
while the latter two invoke the Perl C<fcntl> function. Perl's
C<fcntl> function already returns a Perl error on some types of
invalid arguments. In contrast File::FcntlLock passes them on to the
L<fcntl(2)> system call and then returns the systems response to the
caller.

There are three methods for obtaining information about the
reason the a call of the L<lock()> method failed:
=over 4

=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the
latest call of L<lock()> . Please take the messages with a grain of
salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux,
TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers
mean. There could be differences (and additional error numbers) on
other systems. If there was no error the method returns C<undef>.

=item C<system_error()>

While the L<error()> method tries to return a string with some direct
relevance to the locking operation (i.e., "File or segment already
locked by other process(es)" instead of "Permission denied") this method
returns the "normal" system error message associated with C<errno>. The
method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW

=item F_RDLCK F_WRLCK F_UNLCK

=item SEEK_SET SEEK_CUR SEEK_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system
call. Note also that under certain circumstances the File::FcntlLock::Pure
and File::FcntlLock::Inline modules may not have been installed. This
happens on 32-bit systems that use 64-bit integers in their flock
structure but where the installed Perl version doesn't support the 'q'
format for its C<pack> and C<unpack> functions.

=head1 CREDITS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions,
code examples and encouragement. Glenn Herteg pointed out several problems
and also helped improve the documentation. Julian Moreno Patino helped
correcting the documentation and pointed out problems arising on GNU Hurd
which seems to have only very rudimentary support for locking with
L<fcntl(2)>. Niko Tyni and Guillem Jover encouraged and helped with
implementing alternatives to an XS-only approach which hopefully will
make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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File::FcntlLock

File::FcntlLock is a module to do file locking in an object oriented
fashion using the fcntl(2) system call. This allows locks on parts of
a file as well as on the whole file and overcomes some known problems
with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done
with using this package. Per default a method is used where a shared
library build creation of the package is called from the Perl code to
invoke the fcntl(2) system function. This method can also be used by
employing the File::FcntlLock::XS module (which basically an alias for
File::FcntlLock). Two further methods instead use calls of the Perl
fcntl() function. In both cases at some time a C program must be run
to determine the binary layout of the C flock struct used by fcntl()
for locking. For the one package, File::FcntlLock::Pure, this is done
while making the package. For the other, File::FcntlLock::Inline, this
happens each time the package is loaded (e.g. with the 'use' function).
Of course, for this to work a C compiler must be installed on the
system!

Unfortunately, there seem to be a few 32-bit systems where the off_t
type, used in the flock struct, is a 64-bit integer but which use a
Perl version that hasn't 64-bit support enabled. On these systems the
'q' format for Perl's pack() and unpack() function isn't available and
thus a "pure Perl" approach is thus not possible. On such systems the
File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get
installed.

PORTABILITY

To use the module the system must support the fcntl() system call
which probably will restrict its use to POSIX compliant systems.

INSTALLATION

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

DEPENDDENCIES

The module requires the following other modules:

POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

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1.160 jackson-jaxrs-json-provider 2.9.5

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.162 json-java 20180130
1.162.1 Available under license:

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1.163 ncurses 6.1 1ubuntu1.18.04

1.163.1 Available under license:

Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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Calling this script install-sh is preferred over install.sh, to prevent
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when there is no Makefile.

This script is compatible with the BSD install script, but was written
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-- vile: txtmode file-encoding=utf-8

1.164 c3p0 0.9.1.1

1.164.1 Available under license :

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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<td>1.6</td>
<td>2001 CNRI</td>
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1.172 goprotobuf 1.23.0

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1.173 apt 1.6.11

1.174 reactor-grpc-stub 1.0.0

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1.175 init-system-helpers 1.51

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1.176 masterminds-semver v3.1.0

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1.177 slf4j 1.7.26

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1.182 resilience4j-retry 1.3.1

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1.187 gdbm 1.14.1-6

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1.190 simpleclient-dropwizard 0.0.21

1.191 reflections 0.9.11

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1.192 git 2.17.1-1ubuntu0.7

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
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1.215 curl 7.58.0 2ubuntu3.6

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1.216 reactive-grpc-common 1.0.0

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1.217 jaxb-core 2.2.11

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1.223 mgo 2.0.0

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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
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man/getpeereid.3bsd
man/pidfile.3bsd
src/expand_number.c
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man/strtonum.3bsd
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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the
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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
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work. (Executables containing this object code plus portions of the
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1.231 spring-ws-core 3.0.8

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1.232 shadow 4.5 1ubuntu1

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include/wintdint.h is included only for Windows Client support, as follows:

// 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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1.239 zookeeper-jute 3.6.1
1.239.1 Available under license :

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

    options {
    STATIC=false;
    }

    PARSER_BEGIN(Rcc)
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*/

package org.apache.jute.compiler.generated;

import org.apache.jute.compiler.*;
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;

@SuppressWarnings("unused")
public class Rcc {
    private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
    private static String curDir = System.getProperty("user.dir");
    private static String curFileName;
    private static String curModuleName;

    public static void main(String args[]) {
        String language = "java";
        ArrayList<String> recFiles = new ArrayList<String>();
        JFile curFile=null;

        for (int i=0; i<args.length; i++) {
            if ("-l".equalsIgnoreCase(args[i]) ||
                "--language".equalsIgnoreCase(args[i])) {
                language = args[i+1].toLowerCase();
                i++;
            } else {
                recFiles.add(args[i]);
            }
        }

        if (!"c++".equals(language) &&
            !"java".equals(language) &&
            !"c".equals(language)) {
            System.out.println("Cannot recognize language:" + language);
            System.exit(1);
        }
    }
}
if (recFiles.size() == 0) {
    System.out.println("No record files specified. Exiting.");
    System.exit(1);
}
for (int i=0; i<recFiles.size(); i++) {
    curFileName = recFiles.get(i);
    File file = new File(curFileName);
    try {
        curFile = parseFile(file);
    } catch (FileNotFoundException e) {
        System.out.println("File " + recFiles.get(i) + " Not found.");
        System.exit(1);
    } catch (ParseException e) {
        System.out.println(e.toString());
        System.exit(1);
    }
    System.out.println(recFiles.get(i) + " Parsed Successfully");
    try {
        curFile.genCode(language, new File(".");
    } catch (IOException e) {
        System.out.println(e.toString());
        System.exit(1);
    }
}

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
    FileReader reader = new FileReader(file);
    try {
        Rcc parser = new Rcc(reader);
        recTab = new Hashtable<String, JRecord>();
        return parser.Input();
    } finally {
        try {
            reader.close();
        } catch (IOException e) {
        }
    }
}

PARSER_END(Rcc)

SKIP : {
```
"="
| "\n"
| "\r"
| "\r\n"
}

SPECIAL_TOKEN:
{
  "//" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN:
{
  <("\n" | "\r" | "\r\n")> : DEFAULT
}

<WithinOneLineComment> MORE:
{
  <~[]>
}

SPECIAL_TOKEN:
{
  "/#" : WithinMultiLineComment
}

<WithinMultiLineComment> SPECIAL_TOKEN:
{
  "*/" : DEFAULT
}

<WithinMultiLineComment> MORE:
{
  <~[]>
}

TOKEN:
{
  <MODULE_TKN: "module">
  | <RECORD_TKN: "class">
  | <INCLUDE_TKN: "include">
  | <BYTE_TKN: "byte">
  | <BOOLEAN_TKN: "boolean">
  | <INT_TKN: "int">
  | <LONG_TKN: "long">
  | <FLOAT_TKN: "float">
  | <DOUBLE_TKN: "double">
  | <USTRING_TKN: "ustring">
```
JFile Input() :
{
    ArrayList<JFile> ilist = new ArrayList<JFile>();
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JFile i;
    ArrayList <JRecord>l;
}
{
    i = Include()
    { ilist.add(i) ; }
    l = Module()
    { rlist.addAll(l) ; }
}+
<EOF>\n    { return new JFile(curFileName, ilist, rlist); }\n}

JFile Include() :
{
    String fname;
    Token t;
}
{
    <INCLUDE_TKN>
    t = <CSTRING_TKN>
    {
        JFile ret = null;
        fname = t.image.replaceAll("\\\", ").replaceAll("\\\$, ");
        File file = new File(curDir, fname);
        String tmpDir = curDir;
        String tmpFile = curFileName;
        curDir = file.getParent();
        curFileName = file.getName();
    }
try {
    FileReader reader = new FileReader(file);
    Rcc parser = new Rcc(reader);
    try {
        ret = parser.Input();
        System.out.println(fname + " Parsed Successfully");
    } catch (ParseException e) {
        System.out.println(e.toString());
        System.exit(1);
    }
    try {
        reader.close();
    } catch (IOException e) {
    }
} catch (FileNotFoundException e) {
    System.out.println("File \" + fname + " Not found.");
    System.exit(1);
}
curDir = tmpDir;
curFileName = tmpFile;
return ret;
}

ArrayList<JRecord> Module() :
{
    String mName;
    ArrayList<JRecord> rlist;
}
{
    <MODULE_TKN>
    mName = ModuleName()
    { curModuleName = mName; } 
    <LBRACE_TKN>
    rlist = RecordList()
    <RBRACE_TKN>
    { return rlist; }
}

String ModuleName() :
{
    String name = ";
    Token t;
}
{
    t = <IDENT_TKN>
    { name += t.image; }
}
(  
    t = <IDENT_TKN>  
    { name += "." + t.image; }  
)*  
{ return name; }  
}

ArrayList<JRecord> RecordList() :  
{  
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();  
    JRecord r;  
}  
{  
    (  
        r = Record()  
        { rlist.add(r); }  
    )+  
    { return rlist; }  
}

JRecord Record() :  
{  
    String rname;  
    ArrayList<JField> flist = new ArrayList<JField>();  
    Token t;  
    JField f;  
}  
{  
    <RECORD_TKN>  
    t = <IDENT_TKN>  
    { rname = t.image; }  
    <LBRACE_TKN>  
    (  
        f = Field()  
        { flist.add(f); }  
        <SEMICOLON_TKN>  
    )+  
    <RBRACE_TKN>  
    {  
        String fqn = curModuleName + "." + rname;  
        JRecord r = new JRecord(fqn, flist);  
        recTab.put(fqn, r);  
        return r;  
    }  
}

JField Field() :
JType Type()
{
    JType jt;
    Token t;
    String rname;
}

    jt = Map()
        { return jt; }
    | jt = Vector()
        { return jt; }
    | <BYTE_TKN>
        { return new JByte(); }
    | <BOOLEAN_TKN>
        { return new JBoolean(); }
    | <INT_TKN>
        { return new JInt(); }
    | <LONG_TKN>
        { return new JLong(); }
    | <FLOAT_TKN>
        { return new JFloat(); }
    | <DOUBLE_TKN>
        { return new JDouble(); }
    | <USTRING_TKN>
        { return new JString(); }
    | <BUFFER_TKN>
        { return new JBuffer(); }
    | rname = ModuleName()
        {
            if (rname.indexOf('.', 0) < 0) {
                rname = curModuleName + "." + rname;
            }
            JRecord r = recTab.get(rname);
            if (r == null) {
                System.out.println("Type " + rname + " not known. Exiting.");
                System.exit(1);
            }
            return r;
JMap Map() :
{
    JType jt1;
    JType jt2;
}
{
    <MAP_TKN>
    <LT_TKN>
    jt1 = Type()
    <COMMA_TKN>
    jt2 = Type()
    <GT_TKN>
    { return new JMap(jt1, jt2); }
}

JVector Vector() :
{
    JType jt;
}
{
    <VECTOR_TKN>
    <LT_TKN>
    jt = Type()
    <GT_TKN>
    { return new JVector(jt); }
}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/jute/compiler/generated/rcc.jj

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* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/txn/TxnDigest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/data/ACL.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/txn/CreateTTLTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/txn/CreateTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/txn/CreateTxnV0.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/CheckWatchesRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/CreateRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/SetACLResponse.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/data/Stat.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/txn/CreateSessionTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/GetChildren2Response.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/txn/MultiTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/ExistsResponse.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/server/persistence/FileHeader.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/MultiHeader.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/GetSASLRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources.jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/GetDataRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/txn/CreateContainerTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/CreateResponse.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/SetDataRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/GetChildrenRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/AddWatchRequest.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/txn/CheckVersionTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/SetSASLResponse.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/txn/ErrorTxn.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-jar/org/apache/zookeeper/proto/ReplyHeader.java

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jar/org/apache/jute/compiler/generated/RccTokenManager.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/SimpleCharStream.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/compiler/generated/RccConstants.java
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jar/org/apache/jute/jute/OutputArchive.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/jute/Vector.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/jute/CompType.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/jute/Int.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/jute/RecordWriter.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/jute/SharpGenerator.java
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
jar/org/apache/jute/jute/CppGenerator.java
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  jar/org/apache/jute/package.html
* /opt/ws_local/PERMITS_SQL/1057943805_1592387280.83/0/zookeeper-jute-3-6-1-sources-
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1.245 debianutils 4.8.4

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1.247 jackson-databind 2.9.5

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1.251 sudo 1.8.21p2-3ubuntu1.2

1.251.1 Available under license:
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
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieuusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
The following people have worked to translate `sudo` into other languages:

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

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## Thai Dictionary

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include/GL/glxext.h
include/GL/wglxext.h :

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1.274 libxrender 0.9.10-1

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1.276 metrics-graphite 4.0.2

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1.278 jackson-datatype-jsr310 2.9.5

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1.280 systemd 237 3ubuntu10.33

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Last revised by Reagle $Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) $

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

Preamble

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

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

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

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

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

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

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# Jackson JSON processor

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1.311 metrics-logback 4.0.2

1.312 grizzly-utils 1.9.8
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1.313 protobuf-java-util 3.5.1

1.314 kafka-streams 2.3.1

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   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
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/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
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    kprop/kprop_rpc.c
    kprop/kproplog.c

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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
```

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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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# checks for violations of the coding standards related to copyright
# and license statements in source code comments.

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)

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1.321 zlib Version Detected 1.2.11.dfsg-0ubuntu2

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1.322 metrics-annotation 4.0.2

1.323 libjpeg-turbo 1.5.2-0ubuntu5.18.04.3

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1.328 spring-cloud-context 2.2.0

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1.329 connect-api 2.3.1

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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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1.346 libx11 1.6.4-3ubuntu0.2

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1.356 netcat-openbsd 1.187-1ubuntu0.1

1.357 patch 2.7.6 2ubuntu1.1

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1.366 commons-io 1.3.2

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1.367 el-api 6.0.53

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

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6.

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,
extcept 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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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.386 websocket-api 9.4.29.v20200521

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas
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1.387 metrics-jetty 4.0.2
1.388 libsepol 2.7-1

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

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## Little Color Management System (LCMS) v2.9

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**Little Color Management System**

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1.393 x-text 0.3.2

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1.394 guava 18.0

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1.395 jersey-entity-filtering 2.28

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1.405 python-defaults 3.6.7 1~18.04

1.406 jackson-datatype-jdk8 2.9.9

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1.407 tomcat-jdbc 9.0.13

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
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1.414 slf4j 1.7.30

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1.416 python-idna 2.6 1

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1.420 jetty-continuation 9.4.18.v20190429

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Special thanks to Marek Michalkiewicz (marekm@i17linuxb.ists.pwr.wroc.pl) for taking over the Linux port of this software.

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.428 jackson-module-jaxb-annotations 2.9.8

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1.441 zstd 1.3.3+dfsg 2ubuntu1

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1.447 jetty-setuid-java 1.0.3

1.448 golang-protobuf-extensions 1.0.1

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

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(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 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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hostname -- set the host name or show the host/domain name

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `. 's to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME)
/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
    fprintf (FILE, "t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
    ( fputs (".comm ", (FILE)),\n      assemble_name ((FILE), (NAME)),\n      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
    ( fputs (".lcomm ", (FILE)),\n      assemble_name ((FILE), (NAME)),\n      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#if defined HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
    ( fputs (".lcomm ", (FILE)),\n      assemble_name ((FILE), (NAME)),\n      fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
   that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\n    if ((LOG)!=0) fprintf ((FILE), 	ALIGNMENT) / BITS_PER_UNIT)\n#endif

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\n    sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))
/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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#!/usr/bin/python
#
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# so that they have the form:
#
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#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
        sys.stderr.write(string + '\n')
        self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()
self.skip_files |= set([
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config_sub',
    'depcomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltversion.m4',
    'lt--obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])

def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'
')
def skip_file (self, dir, filename):
if filename in self.skip_files:
    return True

(base, extension) = os.path.splitext (os.path.join (dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

return False

def skip_dir (self, dir, subdir):
return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
if filename in self.fossilised_files:
    return True

# Only touch current current ChangeLogs.
if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
    return True
return False

def by_package_author (self, dir, filename):
return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors
# Characters in a range of years. Include ',' for typos.
ranges = '[0-9][?][0-9,.-\s]+[\s+and\s+]*[0-9]'

# Non-Whitespace characters in a copyright holder's name.
name = '\[\w.-\]'

# Matches one year.
self.year_re = re.compile ('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '((C)c)opyright'  
    '[(Cc)opyrights+(\[Cc\])]'  
    '[(Cc)opyrights+\%]'  
    '[(Cc)opyrights+&copy;]'  
    '[(Cc)opyrights+@copyright{}]'  
    'copyright = u''  
    '[@set\s+copyright\[w-\]+]'  
  )

# 2: the years. Include the whitespace in the year, so that  
# we can remove any excess.
'\s*\(\s*' + ranges + '.\)\s*'
'[\@value\[{[^\}]\}*\s]*'  

# 3: 'by ', if used  
'(by\s+)?'  

# 4: the copyright holder. Don't allow multiple consecutive  
# spaces, so that right-margin gloss doesn't get caught  
# (e.g. gnat_ugn.texi).
'\(' + name + '\(?\:\s?' + name + '+ ')\)?'  

# A regexp for notices that might have slipped by. Just matching  
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile (  
    'copyright.*[0-9][0-9]'  
    re.IGNORECASE  
)

self.comment_re = re.compile('#+|
[*]+|;+|%+|//+|@c |dnl ')  

self.holders = {'@copying': '@copying'}  

self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False
# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ','.
self.separator = ','
def add_package_author(self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None
class BadYear():
    def __init__(self, year):
        self.year = year
    def __str__(self):
        return 'unrecognised year: ' + self.year
def parse_year(self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)
def year_range(self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))
def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt
def include_year(self, year):
    assert not self.max_year
    self.max_year = year
def canonicalise_years(self, dir, filename, filter, years):
# Leave texinfo variables alone.
if years.startswith('@value'):
    return years

(min_year, max_year) = self.year_range(years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file(dir, filename):
    max_year = max(max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
        or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set:
                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
except StopIteration:
    break

    # If the next line doesn't look like a proper continuation,
    # assume that what we've got is complete.
    continuation = self.strip_continuation(next_line)
    if not self.continuation_re.match(continuation):
        break

    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + ' ' + continuation
    next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match(line, match.start())
    assert match
    holder = match.group(4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author(dir, filename):
        assert holder not in self.holders

    elif not holder:
        self.errors.report(pathname, 'missing copyright holder')
        return (False, orig_line, next_line)

    elif holder not in self.holders:
        self.errors.report(pathname, 'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)

    else:
        # See whether the copyright is associated with the package
        # author.
        canon_form = self.holders[holder]
        if not canon_form:
            return (False, orig_line, next_line)

        # Make sure the author is given in a consistent way.
        line = (line[:match.start(4)]
               + canon_form
               + line[match.end(4):])

        # Remove any 'by'
        line = line[:match.start(3)] + line[match.end(3):]

    return (True, line, None)
# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right '):
    intro += ' (C)'
e1f intro.endswith ('(c) '):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip () + '\n'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp '):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
    return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
if match:
    res = self.update_copyright (dir, filename, filter,
        file, line, match)
    (this_changed, line, next_line) = res
    changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.other_copyright_re.search (line):
        self.errors.report (pathname,
            'unrecognised copyright: %s'
        % line.strip())
        lines.append (line)
        line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
                os.fchmod (file.fileno(), mode)
        if self.use_quilt:
            subprocess.call ([‘quilt’, ‘add’, pathname])
        os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
self.option_help = []

self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', """quilt add""" files before changing them',
    self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
    self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter ()):  
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
if len (self.chosen_dirs) == 0:
    self.chosen_dirs = self.default_dirs
if len (self.chosen_dirs) == 0:
    self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join (chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith (canon_dir):
                count += 1
                self.copyright.process_tree (dir, filter)
        if count == 0:
            self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (['math-68881.h', 'math-68881.h', 'math-68881.h'])
        self.skip_dirs |= set (['ada', 'ada', 'ada'])
# Handled separately.
'testsuite',
]

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',
    # Automatically-generated.
    '.pot',
    ])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be used by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            ])

    def skip_file (self, dir, filename):
        # $g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        pass
GenericFilter.__init__(self)

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

class LibGCCFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set([
        # Imported from GLIBC.
        'soft-fp',
    ])

class LibStdCxxFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_files |= set([
        # Contains no copyright of its own, but quotes the GPL.
        'intro.xml',
    ])

    self.skip_dirs |= set([
        # Contains automatically-generated sources.
        'html',

        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images
        'images',
    ])

    self.own_files |= set([
        # Contains markup around the copyright owner.
        'spine.xml',
    ])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('\s*// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)
class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('NVIDIA Corporation')
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        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Regents of the University of California.')
        self.add_external_author ('Unicode, Inc.')
        self.add_external_author ('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)
self.add_dir ('.', TopLevelFilter())
# boehm-gc is imported from upstream.
self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
self.add_dir ('fixincludes')
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnattools')
self.add_dir (gotools')
self.add_dir ('include')
# intl is imported from upstream.
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcc1')
# libcilk is imported from upstream.
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
# libgo is imported from upstream.
self.add_dir ('libgomp')
self.add_dir ('libhsail-rt')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdcxx-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libquadmath',
    'libssp',
    'libstdcxx-v3',
    'libvtv',
    'lto-plugin']
'libgomp',
'libhail-rt',
'libiberty',
'libitm ',
'libobjc',
'libssp',
'libstdc++-v3',
'libvtv',
'[to-plugin',
]

GCCCmdLine().main()
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========

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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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Julian Seward, jseward@bzip.org
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\PP
\v 2

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* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/WriterReaderPhaser.java

1.462 nspr 4.18 1ubuntu1

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1.465 netty-handler-proxy 4.1.45

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1.479 curl 7.58.0 2ubuntu3.8
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1.480 cpp 7.5.0-3ubuntu1~18.04

1.480.1 Available under license :

DRuntime: Runtime Library for the D Programming Language

Boost Software License - Version 1.0 - August 17th, 2003

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Version 3.1, 31 March 2009

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

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1.481 jetty-webapp 9.4.10.v20180503

1.482 connect-transforms 2.3.0
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### 1.514 httpclient 4.5.10

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1.523 jackson-databind 2.8.9

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man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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        var s = d.createElement('script');
        s.type = 'text/javascript';
        s.async = true;
        s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' + comments_identifier;
        (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
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* 605 E. Springfield, Champaign, IL 61820
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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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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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**1.544 kubernetes-model 4.6.3**

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1.545 pam 1.1.8 3.6ubuntu2.18.04.1

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

```
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL) {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily
", 
+                           ((const char *)user)[0]);
```
pwd->pw_uid);
retval = PAM_SESSION_ERR;
goto finished;
}

if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
goto finished;
if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
goto finished;

if (stat(flag, &s) != 0)
{
    display_file(pamh, "/etc/legal");
    mkdir(dir, 0700);
    f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
             S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
    if (f>=0) close(f);
}

finished:
if (pam_modutil_regain_priv(pamh, &privs)) {
    pam_syslog(pamh, LOG_ERR,
               "Unable to change UID back to %d\n", privs.old_uid);
    retval = PAM_SESSION_ERR;
}

_pam_drop(flag);
_pam_drop(dir);
}

return retval;
}

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
+    return retval;
}
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on Wed, 23 Sep 1998 20:29:32 +0200.
It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.546 jetty 9.4.18.v20190429

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.547 tomcat-websocket-api 9.0.13

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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
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1.550 python-stdlib-extensions 3.6.9-1~18.04

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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 (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
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1.551 kerb-crypto 1.1.0

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1.554 json-c 0.12.1 1.3
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1.560 errors v0.8.1

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1.561 hibernate-validator 5.4.2

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1.562 xz 5.2.2 1.3

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1.572 netty-transport 4.1.45

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Index: tdbsa/tdb.c
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 /*
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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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
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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<signature of Ty Coon>, 1 April 1990
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Gadi Oxman, August 1995

---------------------------------------------------------------------------
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<signature of Ty Coon>, 1 April 1989
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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

From the original distribution:

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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 = libc
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSDLIB)

$(BSDLIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSDLIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSDLIB) .
$(RM) -f ../$(BSDLIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSDLIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB)
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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1.588 jq 1.5+dfsg 2

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# Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.593 tomcat-i18n-es 9.0.13

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_web_services_client_1_4.xsd
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- javaee_web_services_1_3.xsd
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- web-common_3_0.xsd
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## Commands to generate dependency files
GEN DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

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

## Bind internal references

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

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

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

## End BSD-specific setup

---

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1.596 metrics-core 2.2.0

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1.599 bzip2 1.0.6 8.1ubuntu0.2

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Julian Seward, jseward@acm.org

bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.600 jdk-zulu 8.46.0.19

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1.602 jboss-logging 3.4.1
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1.615 simpleclient 0.7.0

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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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It has been maintained for Debian by Noah Meyerhans <noahm@debian.org> since 6 Feb 2001.

It was downloaded from https://github.com/iputils/iputils

Upstream Author: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>

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Gocheck - A rich testing framework for Go

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

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

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

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

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<th>Owner</th>
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1.645 jetty-servlet 9.4.18.v20190429

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1.647 nghttp 1.30.0 1ubuntu1

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1.652 jasper-el 7.0.39.2

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1.653 boost 1.60.0

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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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All the value based traits in this library conform to MPL’s requirements for an Integral Constant type.
Please note that these types no longer inherit from `<code class="computeroutput">mpl</code>` or `true_` or `false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `<code class="computeroutput">integral_constant</code>` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
```cpp
#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<
        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 ipc_detail {
} //namespace interprocess {
} //namespace boost {

#else
  #endif  //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
/*
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   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)
{
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">
        "
        "<html>
        "
        "<head>
        "
        "<title>Boost Licence Dependency Information";
    if(m_module_list.size() == 1)
    {
        os << " for " " (m_module_list.begin());
    }
    os <<
        "</title>
        "
        "</head>
        "
        "</body>
        "
        "<H1>Boost Licence Dependency Information";
    }
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>\n";
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 << " <A href="" << make_link_target(licenses.first[i->first].license_name)
    << ">">" << licenses.first[i->first].license_name << "</a>\n";
    ++i;
}

os << "" << make_link_target(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 <b>NOT</b> 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 << "" << make_link_target(dependencies)"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;
}

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+])$";

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">""<h2>Licence Summary</h2><p>Licence Summary</h2>n";
  while(i != j)
  {
    // title:
    os << "<h3>" << licenses.first[i->first].license_name << "</h3>n";
    // 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>n";
    ++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>\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:\n";
    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:\n";
    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;
++i;
// Output list of files not found to be under license control:
//
os << "<h2><a name=files"></a>Files With No Recognisable Licence</h2>
"<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>
"<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>
    "<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>
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><table border="1">
    <tr>
    <td><pre>
    << i->second.first << "</pre></td>
    <td><pre>
    << i->second.second << "</pre></td>
    </tr>
    </table>
    "
    ++i;
    ++file_num;
}
// Output list of files that could be moved over to the Boost Software License
//
// Files that could be converted to the Boost Software License
"<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>

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;
}

// Output list of files that can not be moved over to the Boost Software License
//
// Files that can NOT be converted to the Boost Software License
"<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>

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;
}

// Output list of authors that we need permission for to move to the BSL
//
// Authors we need the permission of:
"<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>

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
"));
// 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;
    ad = m_author_data.begin();
    ead = 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();
        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();
    // 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();
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 << " <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);
}
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.

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All the value based traits in this library conform to MPL's requirements for an [Integral Constant type].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from `integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
Adapters for Boost.MPL containers.

- `boost::mpl::integral_c<T, v>`: Adapter for IntegralConstants from the Boost.MPL.  [More...](#)
- `boost::mpl::list<T>`: Adapter for Boost.MPL lists.  [More...](#)
- `boost::mpl::vector<T>`: Adapter for Boost.MPL vectors.  [More...](#)
#!/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'^\s*\(c\)?\s*copyright\(c\)?\s*\d{4}(\s*\-\s*\d{4})?\s*\((\c\)?\s*\d\{4\}(\s*\-\s*\d\{4\})?\s*\(+*\s*\)+\s*\)+\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)
namespace boost {
namespace container {
namespace dtl {

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);  }
};

template <class T, class=void>
struct is_transparent
{
  static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
  static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
: boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{}

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

BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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EXPRESS OR
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

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

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;

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)>>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                 \


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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))); 
    };

    static const bool value = (1 == sizeof(test<T>(0, 0))); 
};
```cpp
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];}; \
        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)); \
    };
    \
    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, 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>*); \
        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); 
    };
//
```
```cpp
#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) 
   
   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>
#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
```
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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 (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@ntia.me.ntia.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 Detiefs(detiefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agen@uts.amdahl.com) supplied 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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]

Maybe this should pass?

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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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 <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() {} 
var group__group_ext_mpl =
[ 
  [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
  [ "list", "structboost_1_1mpl_1_1list.html", null ],
  [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];

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[quickbook 1.5]
[copyright 2010-2001 Timequake man]
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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
<title>&amp;#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

</head>

</html>
<script type="text/javascript">var DOCUMENTATION_OPTIONS = {
    URL_ROOT:    './',
    VERSION:     '0.6',
    COLLAPSE_INDEX: false,
    FILE_SUFFI:
    X: '.html',
    HAS_SOURCE:  true,
    SOURCELINK_SUFFI:
    X: '.txt'
};</script>

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

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`. Use of this software is granted under one of the following two licenses, to be chosen freely by the user.


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1.654 libjpeg 6b

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==========================================
README for release 6b of 27-Mar-1998
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

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

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability:
for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltnconfig, ltnmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

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

We are required to state that

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REFERENCES

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

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

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


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

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

The JPEG standard does not specify all details of an interchangeable file
format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

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

ARCHIVE LOCATIONS

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

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

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

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

If you don’t have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer’s free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.
In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.655 simpleclient-common 0.2.0

1.656 python-requests 2.18.4 2ubuntu0.1
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1.658 zstd 1.3.3+dfsg 2ubuntu1.1

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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
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/krb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.668 xerces-j 2.9.1

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1.671 slf4j-log4j 1.7.5
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1.672 openssh 7.6p1 4ubuntu0.3

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 */
#ifdef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

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

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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

#ifndef HAVE_SETREGID
int setregid(gid_t, gid_t, gid_t);
#endif

#ifndef HAVE_SETREUID
int setreuid(uid_t, uid_t, uid_t);
#endif

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

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 */

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

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

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLPRI 0x0002
#define POLLNORM POLLRDNORM
#define POLLRDBAND 0x0080
#define POLLRDBAND0x0080
#define POLLWRNORM POLLOUT
#define POLLWRBAND 0x0100
#define POLLWRBAND0x0100
#endif

#if 0
/* the following are currently not implemented */
#define POLLPRIO 0x0002
#define POLLRDNDM0x0040
#define POLLNORMPOLLRDNDM0x0040
#endif

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

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
1.673 python-defaults 2.7.15~rc1-1

1.673.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

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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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dh_python2, pycompile, pyclean and debpython module:

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

If the test fails, update at least one of README and perl.c so that they match reality.
Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

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

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

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

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

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

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

abstract: 'Build and install Perl modules'

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

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

generated_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: Module-Build

resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/

version: 3

1.675 tomcat-i18n-ru 9.0.13

1.675.1 Available under license:

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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:

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1.693 jetty-servlets 9.4.18.v20190429

1.694 bash 4.4.18 2ubuntu1
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1.700 grpc-context 1.13.1
1.700.1 Available under license:

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1.701 libxmu 1.1.2-2
1.701.1 Available under license:

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

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/ /bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+  $srcdir/configure "$@"
+  cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+  $srcdir/configure "$@"
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+  * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+  when building in parallel (closes: #801059). Thanks, Matthias Klose!
+ [Julien Cristau]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:04:44 +0100
+ +libxmu (2:1.1.2-1) unstable; urgency=low
+ + * New upstream release.
+ + * Add ${misc:Depends} to libxmu-headers.
+ + * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ + * Add build-\{arch,indep\} debian/rules targets.
+ + * Bump debhelper compat level from 5 to 7.
+ +
+ -- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200
+ +libxmu (2:1.1.1-1) unstable; urgency=low
+ +
+ + * New upstream release.
+ + * Don't require (fake)root for debian/rules clean.
+ + * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+ + configure.ac.
+ + * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+ + from debian/rules.
+ + * Remove David Nusinow from Uploaders.
+ + * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+ +
+ -- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200
+ +libxmu (2:1.1.0-3) unstable; urgency=low
+ +
+ + * Build for multiarch.
+ +
+ -- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700
+ +libxmu (2:1.1.0-2) unstable; urgency=low
+ +
+ + [Christopher James Halse Rogers]
+ + * debian/patches/01_dont_export_private_deps.patch:
+ + - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
+ +  private dep. With binutils-gold, the indirect dependency on Xt is not
+ +  considered when linking with Xmu so this causes build failures.
+ +
+ -- Julien Cristau
+ + * Drop Pre-Depends on x11-common, only needed for upgrades from the
+ +  monolith.
+ +
+ -- Julien Cristau <jcristau@debian.org>  Thu, 28 Apr 2011 14:10:11 +0200
+
+libxmu (2:1.1.0-1) unstable; urgency=low
+
+ * New upstream release.
+ * Bump xutils-dev build-dep for new macros.
+ * Add xmilo, xorg-sgml-doctools, and w3m build-dep for the doc.
+ * Pass --with-xmilo and --without-fop (we want html and txt only).
+ * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
+   libxmu-headers.install file.
+ * Remove the hardcoded path to the X logo in the Xmu.html file.
+ * Kill *.xml in the doc directory, no point in shipping them.
+ * Switch from --list-missing to --fail-missing for additional safety.
+
+ -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100
+
+libxmu (2:1.0.5-2) unstable; urgency=high
+
+ [ Julien Cristau ]
+ * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+   good reason. Thanks, Colin Watson!
+ * Remove myself from Uploaders
+ * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
+   libxmuu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
+
+ [ Cyril Brulebois ]
+ * Add myself to Uploaders.
+ * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
+   for the report.
+
+ -- Cyril Brulebois <kibi@debian.org>  Sat, 04 Sep 2010 14:32:30 +0200
+
+libxmu (2:1.0.5-1) unstable; urgency=low
+
+ [ Timo Aaltonen ]
+ * New upstream release.
+ * Fix 64bit support (closes: #521887)
+
+ [ Julien Cristau ]
+ * Bump Standards-Version to 3.8.3.
+
+ -- Julien Cristau <jcristau@debian.org>  Wed, 25 Nov 2009 19:20:17 +0100
+
+libxmu (2:1.0.4-2) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * Drop -1 debian revisions from build-deps.
+ * libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmuu-dev don't need a
+ dependency on x11-common.
+ * Build libxmu-headers in binary-indep instead of binary-arch
+ *(closes: #486418). Thanks, Martin Köppe!*
+ * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+ * Handle parallel builds.
+
+ [ Brice Goglin ]
+ * Add a link to www.X.org and a reference to the upstream module
+ in the long description.
+ * Add upstream URL to debian/copyright.
+ * Add README.source, bump Standards-Version to 3.8.2.
+ * Use updated xsfbs, closes: #538587.
+ * Move -dbg packages to section debug.
+
+ -- Julien Cristau <jcristau@debian.org>  Fri, 07 Aug 2009 14:30:36 +0200
+
+libxmu (2:1.0.4-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks,
+ Josh Triplett.
+ * Don't export private dependencies in xmu.pc and xmuu.pc. These
+ dependencies are handled by Requires.private.
+ * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+ * Update xsfbs to the latest version as of 2008-01-06.
+ * Add myself to Uploaders, and remove Branden and Fabio with their
+ permission.
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * s/^XS-Vcs/Vcs/
+
+ [ Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 17 Jan 2008 14:57:47 +0100
+
+libxmu (1:1.0.3-2) unstable; urgency=low
+
+ * New upstream release.
+ * Install the upstream changelog.
+ * Remove outdated CVS information from the package descriptions, and add
+ XS-Vcs-Git and XS-Vcs-Browser.
+ * Fix package sections (libraries in libs, development stuff in libdevel).
+ * Use ${binary:Version} instead of ${Source-Version}.
+
+ -- Julien Cristau <jcristau@debian.org>  Thu, 12 Apr 2007 13:40:07 +0200
+
+libxmu (1:1.0.2-2) unstable; urgency=low
+ [ Andres Salomon ]
+ * Test for obj-$\$(DEB_BUILD_GNU_TYPE)$ before creating it during build;
+  idempotency fix.
+ 
+ [ Drew Parsons ]
+ * dbg package has priority extra.
+ 
+ -- David Nusinow <dnusinow@debian.org>  Wed, 30 Aug 2006 16:53:25 -0400
+ +libxmu (1:1.0.2-1) experimental; urgency=low
+ +
+ * New upstream release
+ * Bump debhelper compat to 5
+ * Run dh_install with --list-missing
+ * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
+  to match the rest of Debian and shut lintian up
+ * Bump standards version to 3.7.2.0
+ 
+ -- David Nusinow <dnusinow@debian.org>  Mon,  3 Jul 2006 18:43:32 -0400
+ +libxmu (1:1.0.1-3) unstable; urgency=low
+ +
+ * Reorder makeshlib command in rules file so that ldconfig is run
+  properly. Thanks Drew Parsons and Steve Langasek.
+ 
+ -- David Nusinow <dnusinow@debian.org>  Tue, 18 Apr 2006 21:49:59 -0400
+ +libxmu (1:1.0.1-2) unstable; urgency=low
+ +
+ * Upload to unstable
+ 
+ -- David Nusinow <dnusinow@debian.org>  Thu, 23 Mar 2006 22:44:59 -0500
+ +libxmu (1:1.0.1-1) experimental; urgency=low
+ +
+ * First upload to Debian
+ 
+ -- David Nusinow <dnusinow@debian.org>  Thu, 29 Dec 2005 20:53:53 -0500
+ +libxmu (1:6.2.3-5) breezy; urgency=low
+ +
+ * Also, libxmu-dev needs to depend on libxt-dev too.
+ 
+ -- Adam Conrad <adconrad@ubuntu.com>  Mon, 25 Jul 2005 09:43:47 +0000
+ +libxmu (1:6.2.3-4) breezy; urgency=low
+ 
+
+ * Bump libxmu-dev build-dep once more, _XOPEN_SOURCE begone!
+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 10:48:14 +0000
+ * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 07:56:02 +0000
+ * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid _XOPEN_SOURCE.
+ -- Daniel Stone <daniel.stone@ubuntu.com> Sat, 23 Jul 2005 00:20:50 +1000
+ * First libxmu release.
+ -- Daniel Stone <daniel.stone@ubuntu.com> Mon, 16 May 2005 22:10:17 +1000
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ debhelper (>= 9),
+ dh-autoreconf,
+ libx11-dev (>= 1:0.99.2),
+ libxt-dev (>= 1:0.99.1),
+ libxext-dev (>= 1:0.99.1),
+ pkg-config,
+ quilt,
+ automake,
+ libtool,
+ xutils-dev (>= 1:7.6+2),
+# devel-docs:
+ xmlto (>= 0.0.22),
+ xorg-sgml-doctools (>= 1:1.8),
+ w3m,
Package: libxmu6
Section: libs
Architecture: any
Multi-Arch: same
Pre-Depends: ${misc:Pre-Depends}
Depends: ${shlibs:Depends}, ${misc:Depends}
Description: X11 miscellaneous utility library
libXmu provides a set of miscellaneous utility convenience functions for X
libraries to use. libXmu is a lighter-weight version that does not depend
on libXt or libXext; for more information, see libxmuu1.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmu6-dbg
Section: debug
Architecture: any
Multi-Arch: same
Priority: extra
Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
Description: X11 miscellaneous utility library (debug package)
libXmu provides a set of miscellaneous utility convenience functions for X
libraries to use. libXmu is a lighter-weight version that does not depend
on libXt or libXext; for more information, see libxmuu1.

This package contains the debug versions of the library found in libxmu6.
Non-developers likely have little use for this package.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
git://anongit.freedesktop.org/git/xorg/lib/libXmu

Package: libxmu-dev
Section: libdevel
Architecture: any
Multi-Arch: same
Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
headers (= ${source:Version})
Description: X11 miscellaneous utility library (development headers)
+
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+
+ More information about X.Org can be found at:
+ + <URL:http://www.X.org>
+
+ This module can be found at
+ + git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+ Package: libxmuu1
+ Section: libs
+ Architecture: any
+ Multi-Arch: same
+ Pre-Depends: ${misc:Pre-Depends}
+ Depends: ${shlibs:Depends}, ${misc:Depends}
+ Description: X11 miscellaneous micro-utility library
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+
+ More information about X.Org can be found at:
+ + <URL:http://www.X.org>
+
+ This module can be found at
+ + git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+ Package: libxmuu1-dbg
+ Section: debug
+ Architecture: any
+ Multi-Arch: same
+ Priority: extra
+ Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+ Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+
+ More information about X.Org can be found at:
+ + <URL:http://www.X.org>
+
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+.
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc

--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers

--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*

--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc

--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmu.pc.in b/xmu.pc.in
+index a086f83..15dabbf 100644
+++ a/xmu.pc.in
++++ b/xmu.pc.in
+@ @ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmu
+ Description: Xmu Library
+ Version: @PACKAGE_VERSION@
+ Requires: xproto x11 xt
++ Requires: xproto xt
+ Requires.private: x11 xt xext
+ Cflags: -I$[includedir]
+ Libs: -L$[libdir] -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+++ a/xmuu.pc.in
++++ b/xmuu.pc.in
+@ @ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: @PACKAGE_VERSION@
+ Requires: xproto x11
++ Requires: xproto
+ Requires.private: x11
+ Cflags: -I$[includedir]
+ Libs: -L$[libdir] -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
#!/usr/bin/make -f
# debian/rules for the Debian libxmu package.
## Copyright 2004 Scott James Remnant <scott@netsplit.com>
## Copyright 2005 Daniel Stone <daniel@fooishbar.org>
## Copyright 2005 David Nusinow <dnusinow@debian.org>
+
## Uncomment this to turn on verbose mode.
#export DH_VERBOSE=1
+
1.702 jackson 2.8.9

1.702.1 Available under license:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.704 javax-ws-rs-api 2.1.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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1.713 commons-collections 3.2.1

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1.714 grep 3.1 2

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1.722 xstrings v1.3.2
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file name: UBiDiProps.java
encoding: US-ASCII
tab size: 8 (not used)
indentation:4

created on: 2005jan16
created by: Markus W. Scherer

Low-level Unicode bidi/shaping properties access.
Java port of ubidi_props.h/c.
This locale data is based on the ICU’s Vietnamese locale data (rev. 1.38) found at:

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<code>Replaceable</code> is an interface representing a
string of characters that supports the replacement of a range of
itself with a new string of characters. It is used by APIs that
change a piece of text while retaining metadata. Metadata is data
other than the Unicode characters returned by char32At(). One
example of metadata is style attributes; another is an edit
history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that
during a replace operation, new characters take on the metadata of
the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the
<b>strong</b> font".
Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: `length()`, `charAt()`, `char32At()`, and `extractBetween()`.

For a subclass to support metadata, typical behavior of `replace()` is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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ReplaceableString is an adapter class that implements the Replaceable API around an ordinary `StringBuffer`.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement the `Replaceable` class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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 */
package java.security;

import java.io.Serializable;

/**<*/
* Legacy security code; do not use.
/**<*/
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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1.726 prometheus-client 3.2.17+dfsg-1

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

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

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

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*/

package license

import (  
    "context"
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/types"
type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) ([]types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }
    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return res.Returnval, nil
}

func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:     m.Reference(),
        EntityId: id,
    }
    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)
    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:     m.Reference(),
        Entity:    id,
        LicenseKey:   key,
        EntityDisplayName: name,
    }
    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }
    return &res.Returnval, nil
}
package license

import (
    "context"
    "strconv"
    "strings"

    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }

    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}
func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:   m.Reference(),
        LicenseKey: key,
        Labels: mapToKeyValueSlice(labels),
    }

    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:   m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:   m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:   m.Reference(),
        LicenseKey: key,
        Labels: mapToKeyValueSlice(labels),
    }

    // rest of the function
res, err := methods.UpdateLicense(ctx, m.Client(), &req)
if err != nil {
    return types.LicenseManagerLicenseInfo{}, err
}
return res.Returnval, nil

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }
    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }
    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }
    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }
    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    return lf
}
f := strings.Split(feature, ":")
lf.name = f[0]

if len(f) > 1 {
    var err error
    lf.level, err = strconv.Atoi(f[1])
    if err != nil {
        lf.name = feature
    }
}

return lf

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }
        kv, ok := p.Value.(types.KeyValue)
        if !ok {
            continue
        }
        lf := parseLicenseFeature(kv.Key)
        if lf.name == feature.name && lf.level >= feature.level {
            return true
        }
    }

    return false
}

InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList
    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
return result

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*/

package simulator

import (  "context"  "reflect"  "testing"  
  "github.com/vmware/govmomi"  "github.com/vmware/govmomi/find"  "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {  ctx := context.Background()  m := VPX()  defer m.Remove()
err := m.Create()
if err != nil {
    t.Fatal(err)
}

ts := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
am, err := lm.AssignmentManager(ctx)
if err != nil {
    t.Fatal(err)
}

la, err := am.QueryAssigned(ctx, "enoent")
if err != nil {
    t.Fatal(err)
}

if len(la) != 0 {
    t.Errorf("unexpected license")
}

finder := find.NewFinder(c.Client, false)
hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
    t.Fatal(err)
}

host := hosts[0].Reference().Value

for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
        t.Fatal("no licenses")
    }
}
if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
    t.Fatal("invalid license")
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
    m := ESX()
    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    _, err = lm.AssignmentManager(ctx)
    if err == nil {
        t.Fatal("expected error")
    }

    la, err := lm.List(ctx)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
        t.Fatal("no licenses")
    }

    if !reflect.DeepEqual(la[0], EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()
defer m.Remove()

err := m.Create()
if err != nil {
t.Fatal(err)
}

s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
t.Fatal(err)
}

if info.LicenseKey != key {
t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}

if len(info.Labels) != len(labels) {
t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
t.Fatalf("expect label to be {key:value}; got {\%s:%s}"),
info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
t.Fatal(err)
}

if len(la) != 2 {
t.Fatal("no licenses")
}
if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q",
        key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d",
        len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {"%s:%s}"",
        la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

#! /usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
    if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
        skip "requires evaluation license"
    fi
}

get_key() {
    jq ".[].[] | select(.LicenseKey == \"$1\")"
}

get_property() {
    jq -r ".Properties[].[] | select(.Key == \"$1\") .Value"
}
get_label() {
  govcl license ls -json | jq ".[] | select(.LicenseKey == "$1") | .Labels[] | select(.Key == "$2") | .Value"
}

get_nlabel() {
  govcl license ls -json | jq ".[] | select(.LicenseKey == "$1") | .Labels[].Key" | wc -l
}

@test "license.add" {
  esx_env
  verify_evaluation
  run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
  assert_success

  # Expect to see an entry for both the first and the second key
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"
}

@test "license.remove" {
  esx_env
  verify_evaluation
  run govc license.remove -json 00000-00000-00000-00000-00001
  assert_success
}

@test "license.ls" {
  vcssim_env
  verify_evaluation
  run govc license.ls -json
  assert_success

  # Expect the test instance to run in evaluation mode
  assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<${output} | jq ".Name")"
}

@test "license.decode" {
  esx_env
  verify_evaluation
key=00000-00000-00000-00000-00000
assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
  vcsim_env

  key=00000-00000-00000-00000-00000

  assert_equal 0 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"

  run govc license.label.set $key foo bar
  assert_success

  assert_equal 1 "$(get_nlabel $key)"
  assert_equal bar "$(get_label $key foo)"

  run govc license.label.set $key biz baz
  assert_success
  run govc license.label.set $key foo bar2
  assert_success

  assert_equal 2 "$(get_nlabel $key)"
  assert_equal bar2 "$(get_label $key foo)"

  run govc license.label.set $key foo ""
  assert_success

  assert_equal 1 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"
}
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*/
package license

import (  
  "context"  
  "flag"  
  "fmt"  
  "io"  
  "os"  
  "text/tabwriter"
  
  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"  
  "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {  
  *flags.ClientFlag  
  *flags.OutputFlag

  id string
 }

func init() {
  cli.Register("license.assigned.ls", &assigned{})
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)
  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)

  f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }
  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }
  return nil
}
func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }

    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s	", v.EntityId)
        fmt.Fprintf(tw, "%s	", v.Scope)
        fmt.Fprintf(tw, "%s	", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s	", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}
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*/
package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
}
m := license.NewManager(client)
for _, v := range f.Args() {
    err = m.Remove(ctx, v)
    if err != nil {
        return err
    }
}

return nil

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package simulator

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",
            },
        },
    }
}

// LicenseManager struct

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        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 *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
    }

    for i := range m.Licenses {
        license := &m.Licenses[i]
        if req.LicenseKey != license.LicenseKey {
            continue
        }
        body.Res = new(types.UpdateLicenseLabelResponse)
        for j := range license.Labels {
            label := &license.Labels[j]
            if label.Key == req.LabelKey {
                if req.LabelValue == ""
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                else
                    license.Labels[j].Value = req.LabelValue
                body.Res.Labels = append(body.Res.Labels, license.Labels[i])
            }
        }
    }
}
} else {
    label.Value = req.LabelValue
}
return body

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})
return body

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{
    {
        EntityId:        req.EntityId,
        AssignedLicense: EvalLicense,
    },
}
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
  info := EvalLicense

  info.LicenseKey = key
  info.Labels = labels

  return info
}

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package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
    *flags.ClientFlag
    *flags.OutputFlag

    feature string
}

func init() {
    cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    f.StringVar(&cmd.feature, "feature", "," featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}
func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    result, err := m.List(ctx)
    if err != nil {
        return err
    }
    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }
    return cmd.WriteResult(licenseOutput(result))
}
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*/

package license

import {
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name   string
    remove bool
}

func init() {
    cli.Register("license.assign", &assign{ })
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)

    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)

    f.StringVar(&cmd.name, "name", "", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }

    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.

Examples:
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}

func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }

    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    var id string

    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }
        if cluster == nil {
            // Default to vCenter UUID
            id = client.ServiceContent.About.InstanceUuid
        } else {
            id = cluster.Reference().Value
        }
    } else {
        id = host.Reference().Value
    }

    return license.AssignLicense(ctx, id, key)
}
if cmd.remove {
    return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{info}))

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*/

package license

import (  
    "context"  
    "flag"  
    "fmt"

    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"
```go
package license

import (
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    return nil
}

func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    //
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
}
```
var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
switch t := client.ServiceContent.About.ApiType; t {
case "HostAgent":
    addFunc = m.Update
    case "VirtualCenter":
    addFunc = m.Add
    default:
    return fmt.Errorf("unsupported ApiType: %s", t)
}
result := make(licenseOutput, 0)
for _, v := range fArgs() {
    license, err := addFunc(ctx, v, nil)
    if err != nil {
        return err
    }
}
result = append(result, license)
return cmd.WriteResult(licenseOutput(result))

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*/

package license

import ( "context"
type decode struct {
*flags.ClientFlag
*flags.OutputFlag

feature string
}

func init() {
cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)

  f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }

  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }
  return nil
}

func (cmd *decode) Usage() string {
  return "KEY...
"}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }
}
var result license.InfoList
m := license.NewManager(client)
for _, v := range f.Args() {
    license, err := m.Decode(ctx, v)
    if err != nil {
        return err
    }
}
result = append(result, license)
}
if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
}
return cmd.WriteResult(licenseOutput(result))

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*/

package license

import (  
    "fmt"
    "io"
    "os"
    "text/tabwriter"
    "github.com/vmware/govmomi/vim25/types"
)

type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
fmt.Fprintf(tw, "Key:\tEdition:\tUsed:\tTotal:\n")
for _ , v := range res {
    fmt.Fprintf(tw, "%s\t", v.LicenseKey)
    fmt.Fprintf(tw, "%s\t", v.EditionKey)
    fmt.Fprintf(tw, "%d\t", v.Used)
    fmt.Fprintf(tw, "%d\t", v.Total)
    fmt.Fprintf(tw, "\n")
}
return tw.Flush()
}

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package license

import (  
  "context"  
  "flag"  
  "github.com/vmware/govmomi/govc/cli"  
  "github.com/vmware/govmomi/govc/flags"  
  "github.com/vmware/govmomi/license"  
  "github.com/vmware/govmomi/vim25/methods"
)
type label struct {
    *flags.ClientFlag
}

func init() {
    cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
}

func (cmd *label) Usage() string {
    return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {
    return `Set license labels.
Examples:
govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label
govc license.ls -json | jq ".[] | select(.Labels[].Key == "team") | .LicenseKey"
`}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    if f.NArg() != 3 {
        return flag.ErrHelp
    }

    req := types.UpdateLicenseLabel{
        This:       m.Reference(),
        LicenseKey: f.Arg(0),
        LabelKey:   f.Arg(1),
        LabelValue: f.Arg(2),
    }
_, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
return err
}
Paul Borman <borman@google.com>
bmatsu
shawnps
theory
jboverfelt
dsymonds
cd1
wallclockbuilder
dansouza

1.744 spring-messaging 5.2.3

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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
  jar/org/springframework/messaging/handler/invocation/reactive/ReturnValueHandlerConfigurer.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
  jar/org/springframework/messaging/MessageHeaders.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
  jar/org/springframework/messaging/core/MessageSendingOperations.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
  jar/org/springframework/messaging/simp/annotation/support/MissingSessionUserException.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
  jar/org/springframework/messaging/simp/config/StompBrokerRelayRegistration.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
  jar/org/springframework/messaging/support/ChannelInterceptor.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/simp/config/SimpleBrokerRegistration.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/Message.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/simp/config/SimpLogging.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/support/ChannelInterceptorAdapter.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/core/DestinationResolver.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/simp/stomp/StompHeaders.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/core/AbstractMessageReceivingTemplate.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/support/NativeMessageHeaderAccessor.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/core/DestinationResolvingMessageReceivingOperations.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5.2.3-release-sources-jar/org/springframework/messaging/core/AnnotationExceptionHandlerMethodResolver.java
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/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * <code>{@link #queueCapacity(int) queueCapacity}</code> is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in <code>{@link java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor}</code> for
 * more details.
 * <p>By default this is set to <code>@code Integer.MAX_VALUE</code>.
 */

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1.751 libwebp 0.6.1-2

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1.753 json-smart 2.3

1.754 tomcat-embed-websocket 9.0.30

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1.758 libseccomp 2.3.1-2.1ubuntu4

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1.759 jackson-dataformat-yaml 2.10.2

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1.765 go-runtime 1.13

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## Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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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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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
23-June-2007

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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

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Index: tdbsa/tdb.c

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

 - trivial database library - private includes
 -
- Copyright (C) Andrew Tridgell 2005
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 This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB-pic_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) 
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS)`
`echo $(my_dir) | sed -e 's;lib/;;'/"$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$LDCONFIG

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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**1.7.70 jul-to-slf4j 1.7.30**

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1.771 animal-sniffer-annotation 1.14

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1.772 ubuntu-keyring 2018.09.18.1~18.04.0

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This package was originally put together by Michael Vogt
<michael.vogt@canonical.com>

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1.773 jackson-datatype-jdk8 2.10.2

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

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

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

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

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
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with the Library, with the complete machine-readable `work that
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@ifinfo
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@page
@heading Appendix: How to Apply These Terms to Your New Programs

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@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
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@end smallexample

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@example
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This subpackage is under the GPL, see file COPYING in the toplevel directory.

1.776 profiler 1.0.2

1.777 binutils 2.30-21ubuntu1~18.04.3
1.777.1 Available under license:

(This file is under construction.)-*- text -*-

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

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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1.788 slf4j-log4j 1.7.30

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1.789 glob 1.0.0

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1.790 grpc-protobuf 1.13.1

1.791 hamcrest 1.2

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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**1.818 joda-time 2.9.9**

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.821 libmpc 1.1.0-1

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1.829 openjdk-jre 1.8.0u252

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.833 libxcb 1.13-1

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1.834 kerby-pkix 1.1.0

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1.835 jetty-servlets 9.4.16.v20190411

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.838 libalgorithm-merge-perl 0.08-3

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NAME

Algorithm::Merge - Three-way merge and diff
SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
});

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
}, $key_generation_function);

$smerged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
});

$smerged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
}, $key_generation_function);

@diff = diff3(@ancestor, @a, @b);

@diff = diff3(@ancestor, @a, @b, $key_generation_function);

$diff = diff3(@ancestor, @a, @b);

$diff = diff3(@ancestor, @a, @b, $key_generation_function);

@trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
});

@trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
}, $key_generation_function);

$strav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
});

$strav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
}, $key_generation_function);

USAGE

This module complements Algorithm::Diff by providing three-way merge and
diff functions.
In this documentation, the first list to "diff3", "merge", and "traverse_sequences3" is called the 'original' list. The second list is the 'left' list. The third list is the 'right' list.

The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

diff3
Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are
merge
Given references to three lists of items, "merge" performs a three-way
merge. The "merge" function uses the "diff3" function to do most of the
work.

The only callback currently used is "CONFLICT" which should be a
reference to a subroutine that accepts two array references. The first
array reference is to a list of elements from the left list. The second
array reference is to a list of elements from the right list. This
callback should return a list of elements to place in the merged list in
place of the conflict.

The default "CONFLICT" callback returns the following:

q{<!- ------ START CONFLICT ------ -->},
(@left),
q{<!- ---------------------------- -->},
(@right),
q{<!- ------ END CONFLICT ------ -->}.

traverse_sequences3
This is the workhorse function that goes through the three sequences and
calls the callback functions.

The following callbacks are supported.

NO_CHANGE
This is called if all three sequences have the same element at the
current position. The arguments are the current positions within
each sequence, the first argument being the current position within
the first sequence.

A_DIFF
This is called if the first sequence is different than the other two
sequences at the current position. This callback will be called with
one, two, or three arguments.

If one argument, then only the element at the given position from
the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence
that corresponds to the elements at the given positions in the
second and third sequences.

If three arguments, then the element at the given position in the
first sequence is different than the corresponding element in the

other two sequences, but the other two sequences have corresponding elements.

**B_DIFF**
This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

**C_DIFF**
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

**CONFLICT**
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

**BUGS**
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff’s implementation of "traverse_sequences" may not be
symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an 'Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
James G. Smith, <jsmith@cpan.org>

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# # For testing:
#
sub main::diag {
    warn join("", @_), "\n";
}

print join(" ", merge(
    #print Data::Dumper -> Dump([
    # merge(
    # # [qw(a b c d h i j)], # ancestor
    # # [qw(a b c d f h i j)], # left
    # # [qw(a b c e g )]), # right
    [qw(0 1 2 3 4 7 9 b)],
    [qw(0 6 8 a b)],
    [qw(0 1 2 3 5 8 a b)],
    ##
    { CONFLICT => sub ($$) { (q{<}, @{$$_[0]}, q{>}, @{$$_[1]}, q{>}
    ) },
    },
    ) ), "\n";
Algorithm::Merge - Three-way merge and diff

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
});

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
}, $key_generation_function);

$merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
});

$merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
}, $key_generation_function);

@diff   = diff3(@ancestor, @a, @b);

@diff   = diff3(@ancestor, @a, @b, $key_generation_function);

$diff   = diff3(@ancestor, @a, @b);

$diff   = diff3(@ancestor, @a, @b, $key_generation_function);

@trav   = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
});
This module complements L<Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff>. See L<Algorithm::Diff> for more information.

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k
merge: a b d e g i j k

we have the following result from diff3:
The first element in each row is the array with the difference:

<table>
<thead>
<tr>
<th>c</th>
<th>l</th>
<th>o</th>
<th>r</th>
<th>u</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>l</td>
<td>o</td>
<td>r</td>
<td>u</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>l</td>
<td>o</td>
<td>r</td>
<td>u</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>l</td>
<td>o</td>
<td>r</td>
<td>u</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>c</td>
<td>l</td>
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</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>l</td>
<td>o</td>
<td>r</td>
<td>u</td>
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<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>l</td>
<td>o</td>
<td>r</td>
<td>u</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>c</td>
<td>l</td>
<td>o</td>
<td>r</td>
<td>u</td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

The first element in each row is the array with the difference:

- c - conflict (no two are the same)
- l - left is different
- o - original is different
- r - right is different
- u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are \texttt{C<@ancestor>}, \texttt{C<@a>}, and \texttt{C<@b>}, respectively).

=head2 merge

Given references to three lists of items, \texttt{C<merge>} performs a three-way merge. The \texttt{C<merge>} function uses the \texttt{C<diff3>} function to do most of the work.

The only callback currently used is \texttt{C<CONFLICT>} which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default \texttt{C<CONFLICT>} callback returns the following:

```
q{<!.-- ------ START CONFLICT ------ -->},
(@left),
q{<!.-- ------------------------------- -->},
(@right),
q{<!.-- ------ END CONFLICT ------ -->},
```

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences
and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff>’s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

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=head1 AUTHOR

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 *
 */
package org.apache.directory.api.ldap.aci;

import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.Set;

/**
 * An abstract base class for {@link ItemPermission} and {@link UserPermission}.
 *
 * @author <a href="mailto:dev@directory.apache.org">Apache Directory Project</a>
 */
public abstract class Permission
{
    /** The precedence. */
    private final Integer precedence;

    /** The grants and denials. */
    private final Set<GrantAndDenial> grantsAndDenials;

    /** The grants. */
}
private final Set<GrantAndDenial> grants;

/** The denials. */
private final Set<GrantAndDenial> denials;

/**
 * Creates a new instance
 *
 * @param precedence
 * @param grantsAndDenials
 */
protected Permission( Integer precedence, Collection<GrantAndDenial> grantsAndDenials )
{
    this.precedence = precedence;

    Set<GrantAndDenial> tmpGrantsAndDenials = new HashSet<>();
    Set<GrantAndDenial> tmpGrants = new HashSet<>();
    Set<GrantAndDenial> tmpDenials = new HashSet<>();

    for ( GrantAndDenial gad : grantsAndDenials )
    {
        if ( gad.isGrant() )
        {
            tmpGrants.add( gad );
        }
        else
        {
            tmpDenials.add( gad );
        }

        tmpGrantsAndDenials.add( gad );
    }

    this.grants = Collections.unmodifiableSet( tmpGrants );
    this.denials = Collections.unmodifiableSet( tmpDenials );
    this.grantsAndDenials = Collections.unmodifiableSet( tmpGrantsAndDenials );
}

/**
 * Gets the precedence of this permission.
 */
public Integer getPrecedence()
{ return this.precedence; }
public Integer getPrecedence()
{
    return precedence;
}

/**
* Gets the set of {@link GrantAndDenial}s.
*
* @return the grants and denials
*/
public Set<GrantAndDenial> getGrantsAndDenials()
{
    return grantsAndDenials;
}

/**
* Gets the set of grants only.
*
* @return the grants
*/
public Set<GrantAndDenial> getGrants()
{
    return grants;
}

/**
* Gets the set of denials only.
*
* @return the denials
*/
public Set<GrantAndDenial> getDenials()
{
    return denials;
}

1.840 metrics-jersey2 4.0.2

1.841 jackson-module-jaxb-annotations 2.9.9
1.842 readline 7.0 3

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1.855 python-certifi 2018.1.18 2

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This package contains a modified version of ca-bundle.crt:

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLECACertificateFile.#

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

1.856 jersey 2.25.1

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1.858 argparse 0.8.1

1.859 nginx-module-image-filter 1.16.0-1~bionic

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1.864 icu 60.2 3ubuntu3

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## Commands to generate dependency files

```bash
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```bash
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```bash
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```bash
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```bash
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared library options

```bash
LD_SOOPTIONS= -Wl,-Bsymbolic
```

## Shared object suffix

```bash
SO = so
```

## Non-shared intermediate object suffix

```bash
STATIC_O = ao
```

## Compilation rules

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

## Dependency rules

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

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

## Versioned libraries rules

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

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

## Bind internal references

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

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

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

## End BSD-specific setup

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### 1.865 jsp 2.3.FR

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1.866 jaxb-api 2.1

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1.867 jersey-rx-client 2.25.1

1.868 zlib 1.2.8

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   version 1.2.11, January 15th, 2017

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1.869 bouncy-castle 1.60
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1.870 sysv-init 2.88dsf 59.10ubuntu1

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The of the start-stop-daemon

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1.874 libwebsockets 3.1.0

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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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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src/bdf/bdferror.h
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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1.909 bouncycastle-fips 1.60

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Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.

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Casey Marshall &lt;rsdio&#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes &lt;r.zeldes&#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.

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Graham Coles &lt;graham.coles&#064;604edu.com&gt; - patch to isParityAdjusted in DESKeySpec.

J&ouml;rn von Kattchee &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

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Elmar Sonnenschein &lt;eso&#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.

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Jiri Urbanec &lt;jiri.urbanec@604logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().<li>
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Ralf Hauser &lt;ralfhauser@604gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.<li>
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Mariusz Bandola &lt;mariusz.bandola@cryptotech.com.pl&gt; - patch to DERGeneralizedTime, Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.<li>
Brien Oberstein &lt;brien.oberstein@transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.<li>
Ian Haywood &lt;ian@604haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.<li>
Jonathan Edwards &lt;s34gull@mac.com&gt; - initial support for reading multiple rings from a PGP key file.<li>
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Gregor Leander &lt;gl@604bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.<li>
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Doug &lt;ummmmm@604myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.<li>
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<li>Joseph Miller &lt;joseph#064digibyte.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;xyz#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdukem#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
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<li>Sai Pullabhotla &lt;psai#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
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Andrew Paterson &lt;andrew.paterson@burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov &lt;vladimir.molotkov@intel.com&gt; - extensive provider exception handling compliance testing.

Florin Kollan &lt;adlocflo@web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev &lt;paulvash@gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom@4tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz@gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmlee@Crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee@4tnux.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brianorourke@gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.
Kishimoto Kazuhiko &lt;kazu-k@hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christianat, &lt;a href="http://www.keyon.ch"&gt;http://www.keyon.ch&lt;/a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&ouml;rg Eichhorn &lt;jouml.rg@ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X.509 LDAP CertStore implementation, CertificatePair class, and X.509CertificatePair class. Contributions to X.509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;sneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@064gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen@nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin H&auml;berling &lt;arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch &lt;xavier@064brittanysoftware.com&gt; - general code clean ups.
Erik Tews &lt;e_tews@cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;rjoaquim@#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juliusdavies@#064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga Käthler &lt;olga.kaethler@#064hpconsulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

Núria Marí &lt;numaa@#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;js@#064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike@#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;mtjohns@#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@#064nhr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;tpknopp@#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz &lt;tgwozdziu@#064rg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrnr@#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz@#064yahoo.com&gt; - patch to construtor for CRMF CertSequence.

Gabriele Contini &lt;gcontini@#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelof.naude@#064epiuse.com&gt; - patch for TLS client to send empty client certs in
response to HP_CERTIFICATE_REQUEST.

- Patrick Peck &lt;peck@signature.at&gt; identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
- Michael LeMay &lt;lemaynd@064lemaynd.com&gt; identified problem with EAX [BJA-93].
- Alex Dupre &lt;ale@064FreeBSD.org&gt; fix to use of Signature rather than SignatureSpi in provider [BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [BJA-102].
- Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
- Ion Larrañaga &lt;ilarra@s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.
- Bob Kerns &lt;bob.kerns@064postscience.com&gt; fix to hashCode for X509CertificateObject.
- Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.
- Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.
- Rui Hodai &lt;rui@064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.
- Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; initial implementation of Grain-v1 and Grain-128.
- Torbjorn Svensson &lt;tobbe79@064mail.com&gt; initial implementation of Grain-v1 and Grain-128.
- Paul FitzPatrick &lt;bouncycastle_pfitz@064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
- Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; addition of UniqueIssuerID to certificate generation.
- Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; subjectAlternativeName fix for x.509CertStoreSelector.
- Harakiri &lt;harakiri_23@064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.
- Pedro Henriques &lt;pmahenriques@064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.
- Lothar Kimmeringer &lt;job@064kimmeringer.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME APL.
- Richard Farr &lt;farr.se@064gmail.com&gt; initial SRP-6a implementation.
- Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.
- Elisabetta Romani &lt;eromani@064sogei.it&gt; patch for recognising multiple counter signatures.
- Robin Lundgren &lt;r737lundgren@064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.
- Petr Kadlec &lt;mormegil@064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.
- Andreas Antener &lt;antener_a@064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.
- Harendra Rawat &lt;hrrawat@064yahoo.com&gt; fix for BERConstructedOctetString.
- Rolf Lindemann &lt;rolf.lindemann@064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
- Alex Artamonov &lt;alexart.home@064gmail.com&gt; name look up patch for GOST-2001 parameters.
- Mike Lyons &lt;mlyons@064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
- Chris Cole &lt;chris_h_cole@064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.
- Tomas Krivanek &lt;tom@064atack.cz&gt; added checking of Sender header to SignedMailValidator.
- Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in
CertRepMessage.</li><li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li><li>Markus Kil&amp;aring;ns &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li><li>Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li><li>Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li><li>Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li><li>Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li><li>Wayne Grant &lt;wayne@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li><li>Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.</li><li>Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.</li><li>Bob McGowan &lt;boah.mcgowan@064bitinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li><li>Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li><li>Marco Sandrini &lt;nessche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li><li>Alf Malf &lt;alf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li><li>Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.</li><li>Giacomo Boccardo &lt;gboccardo@064unicatiespa.it&gt; initial work on CMSTimeStampedDataParser.</li><li>Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li><li>Janusz Sikociski &lt;J.Sikocinski@064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li><li>Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSContentInfoParser.</li><li>Liane Velten &lt;liane.velten@064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li><li>Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKKeyRing.</li><li>Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.</li><li>Mickael Laiking &lt;mickael.laiking@064keynectis.com&gt; initial cut of EAC classes.</li><li>Tim Buktu &lt;tbuktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li><li>Bernd &lt;bernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li><li>Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li><li>Andreas Schmid &lt;andreas.schmid@064tngetech.com&gt; Additional expiry time check in PGPPublicKeys.</li><li>Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li><li>Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li><li>Petar Petrov &lt;tpetrov@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li><li>Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective
coordinates for EC.</li>
<li>Andy Neilson &lt;Andy.Neilson&#064quest.com&gt;: a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw &lt;xiao.xj&#064gmail.com&gt;: patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth &lt;Eleriseth&#064WPECGLtYbVi8RI6Y7Vz12Lvd2EUVW99v3yNV3JWROG8.fms&gt;: speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root &lt;kenny&#064the-b.org&gt;: patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes &lt;maarten.bodewes&#064gmail.com&gt;: initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay &lt;pilf_b&#0644ghoo.com&gt;: Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bdc&#064carlstrom.com&gt;: compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lid&eacute;n Borell &lt;samuel&#064primekey.se&gt;: patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.</li>
<li>Sergio Demian Lerner &lt;sergiolerner&#064certimix.com&gt;: pointing out isInfinity issue in ECDSASigner signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington&#064orionhealth.com&gt;: patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDCrypt, PGP API documentation and code quality work.</li>
<li>Marcus Lundblad &lt;marcus.lundblad&#064primekey.se&gt;: patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
<li>Andrey Zhozhin &lt;zhozhin&#064xrm.ru&gt;: patch to override of TSP SignerInfo attributes.</li>
<li>Sergey Tionov &lt;t5555d&#064gmail.com&gt;: initial cut of DVCS classes.</li>
<li>Damian Kolas &lt;fatfreddyd&#064gmail.com&gt;: ASN1Sequence patch for class cast issue in X9Curve.</li>
<li>Ash Hughes &lt;ashley.hughes&#064blueyonder.co.uk&gt;: patches for supporting PGPPrivateKeyRing/PGPPrivateKey encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Daniel Hirscher &lt;dev&#064daniel-hirscher.de&gt;: patch to support parsing of explicit EC parameters in PEM files.</li>
<li>Daniele Ricci &lt;daniele.athome&#064gmail.com&gt;: initial implementation of EC keys for OpenPGP and RFC6637 support.</li>
<li>Matti Aarnio &lt;matti.aarnio&#064metrics.fi&gt;: tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>
<li>Babak Najafi &lt;bnajafi&#064akamai.com&gt;: fixes to OpenPGP NotationData to prevent truncation problems.</li>
<li>Eric M&amp;uuml;ller &lt;eric.mueller&#064sage.de&gt;: additional standard algorithm name lookups in JcaPEMKeyConverter.
<li>Mathias Herberts &lt;Mathias.Herberts#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrbc#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>Mathias Herberts &lt;Mathias.Herberts#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>
<li>Daniil Ivanov &lt;daniil.ivanov#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>
<li>Daniele Grasso &lt;daniele.grasso86#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
<li>Andrey Utkin &lt;cindrbc#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
<li>Arnis Tartu &lt;arnis#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
<li>AxelVDB &lt;axel-vdb#064riseup.net&gt; initial implementation of Shacal2.</li>
<li>Roberto Tiley &lt;&gt; further work on completing gradle build.</li>
<li>Waldemar Dick &lt;wdick#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward#064pdflabs.com&gt; code improvements to ASN1Boolean.</li>
<li>Alx Klyubin &lt;alx#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;jsoc.student#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli&lt;ehli#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt&lt;Daniel.Heldt#064cryptovision.com&gt; Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bouncycastle#064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts&lt;maarts#064risecure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer&lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
<li>KB Sirram&lt;mail_kb#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze&lt;marco#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer&lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.</li>
<li>dstutz&lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich&lt;tobias.wich#064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens&lt;hauke#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman&lt;dmz#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza&lt;j.kapitza#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund&lt;johan#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn&lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2Digest.</li>
<li>Derek Atkins &lt;derek#064htfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.
<li>lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot &lt;thomas.belot+BC@#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce &lt;https://github.com/rich&drcroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Schummann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael &lt;MSKnete@web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
<li>Tobias Wagner &lt;tobias.wagner@#064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [BJA-536].</li>
<li>Sergio Giro &lt;sgiro@#064google.com&gt; Fixed adding of additional stores from CRL distribution point [BJA-537]. Fixed missing null check for CRL certificate issuer [BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
<li>bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
<li>Jan Willem Janssen &lt;j.w.janssen-bouncycastle@#064lxtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles &lt;benoit.charles@#064opentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95@#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff@cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certificate classes.</li>
<li>Lukasz Deputat &lt;lukasz.deputat@#064gmail.com&gt; Fixed bugs in TlsUtils read methods [BJA-592].</li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjFactory to handle stream packets at start of iterated data.</li>
<li>Andr&egrave; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton &lt;wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [BJA-620].</li>
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle &lt;jnaegle@#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.
Gorka Irazoqui &lt;girazoki@wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECSDSAPublicKey.

Alexandr Krivoshta &lt;wipe@ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storoj72@064gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu@064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis@064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSSMT implementation.

didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storoj72@064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser@064gi.de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;https://github.com/064bitconsulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.

chris mccown &lt;0xchrismccown@064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Tautenhahn &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/berndk&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.
Shartung &lt;https://github.com/shartung&gt;: Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitae&gt;: bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar &lt;https://github.com/nros&gt;: update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt;: sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt;: detection of concurrency issue with pre-1.60 EC math library.

grieg &lt;https://github.com/fgrieu#064gmail.com&gt;: identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt;: patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier#064gmail.com&gt;: initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer@yahoo.co.uk&gt;: review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebee&gt;: initial version of RFC 4998 ASN.1 classes.


Gabriel Sroka &lt;https://github.com/gabrielsroka&gt;: corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt;: improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JounaledAlgorithm.


GiliS95 &lt;https://github.com/GiliS95&gt;: improved JSSE compatibility for setEnabledCipherSuites.


Antoine Touilme &lt;https://github.com/atouilme&gt;: Initial implementation of EthereumIESEngine.


Moses Palm#eacute;r &lt;Henrik.Palmer#064truesec.se&gt;: Additional improvements to constant time comparisons.

Ren&eacute; Korthaus &lt;https://github.com/securitykernel&gt;: Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.


Gaylor Bosson &lt;https://github.com/Giltoniel&gt;: Initial implementation of Blake2xs.


Nick hitchan &lt;https://github.com/aphuang2013&gt;: update to path validation in EST service for ClearPath EST.

Kevin Herron &lt;https://github.com/kevinherron&gt;: Initial ChaCha20Poly1305 prototype.
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;tobias@pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>
</ul>

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1.910 python-crypto 2.6.1 8ubuntu2

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Last updated: 2009-02-28

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=== EOF ===

1.911 jackson-annotations 2.9.0
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1.912 classmate 1.3.4

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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