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Emergency Responder 14Su1 MFG

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The original XML Schemas for Java EE Deployment Descriptors:
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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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- web-app_4_0.xsd
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may be obtained from:

1.5 libusb 1.0.21-1.el7

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<tr>
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<td>nayuta (<a href="mailto:nayuta@is.s.u-tokyo.ac.jp">nayuta@is.s.u-tokyo.ac.jp</a>)</td>
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</tr>
</tbody>
</table>

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*/
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/
#endif _h_config
#define _h_config
/****************** System dependant compilation flags ******************/
/*
* POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX
/*
* POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
*job control facilities.
*/
#undef POSIXJOBS
/*
* VFORKThis machine has a vfork().
*It used to be that for job control to work, this define
*was mandatory. This is not the case any more.
*If you think you still need it, but you don't have vfork,
define this anyway and then do #define vfork fork.
*I do this anyway on a Sun because of yellow pages brain damage,
*[should not be needed under 4.1]
*and on the iris4d causeSGI's fork is sufficiently "virtual"
*that vfork isn't necessary. (Besides, SGI's vfork is weird).
*Note that some machines eg. rs6000 have a vfork, but not
*with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK
/*
* BSDJOBSYou have BSD-style job control (both process groups and
*a tty that deals correctly
*/
#define BSDJOBS
/*
 * BSDTIMES You have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * (OREO) has BSDJOBS but not BSDTIMES.
 */
#define BSDTIMES

/*
 * BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/*
 * TERMIO You have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tcsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
 */
#define SYSVREL 0

/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/******************** local defines *******************/

#endif /* _h_config */

1.16 zlib 1.2.11
1.16.1 Available under license:

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

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

/*

1.17 jersey-client 2.13
1.17.1 Available under license :

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1.21 jackson 2.9.9

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1.22 acl 2.2.51 15.el7

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Julian Seward, Cambridge, UK.
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]
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* /opt/cola/permits/1136045186_1613664864.07/0/spring-web-3-1-4-release-sources-1-jar/org/springframework/web/client/ResourceAccessException.java
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* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1.jar/org/springframework/beans/support/MutableSortDefinition.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1.jar/org/springframework/beans/factory/support/MethodOverride.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1.jar/org/springframework/beans/factory/config/BeanReference.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1.jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1.jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1.jar/org/springframework/beans/factory/xml/XmlReaderContext.java
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* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
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* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
* /opt/cola/permits/1136045563_1613665016.46/0/spring-beans-3-1-4-release-sources-1-
jar/org/springframework/beans/factory/parsing/Location.java
1.29 jetty-io 9.4.31.v20200723
1.29.1 Available under license:

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

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

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

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

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

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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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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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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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1.30 xfsprogs 4.5.0-20.el7

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(1)

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Version 2.1, February 1999

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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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- **c)** Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and
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==================

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1.40 tomcat-annotations-api 9.0.37
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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

------

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

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

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. 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.
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GenericBucketRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/CopyPartRequest.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/ObjectRestoreResult.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/ServerSideEncryptionResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/DeleteObjectsResponse.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/DeleteObjectsResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/MultiObjectDeleteException.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/internal/TransferMonitor.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/BucketLifecycleConfiguration.java

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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/GetObjectTaggingResponseHeaderHandler.java

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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SetBucketAclRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/TransferManagerParams.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetBucketAclRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SetBucketWebsiteConfiguration.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/AmazonS3ClientParams.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/InitiateMultipartUploadHeaderHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketTaggingConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetBucketWebsiteConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketLifecycleConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GetObjectsV2Request.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/ListObjectsV2Request.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/ListObjectsV2Result.java
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* Gets the optional <code>versionIdMarker</code> parameter indicating where in the
* sorted list of all versions in the specified bucket to begin returning
* results. Results are always ordered first lexicographically (i.e.
* alphabetically) and then from most recent version to least recent
* version.
* 
* A key marker must be specified when specifying a <code>versionIdMarker</code>.
* Results begin immediately after the version with the specified key and
* version ID.
* 
* @return The optional <code>versionIdMarker</code> parameter indicating where in the
* sorted list of all versions in the specified bucket to begin
* returning results.
* 
* @see ListVersionsRequest#setVersionIdMarker(String)
* @see ListVersionsRequest#withVersionIdMarker(String)
* 
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* jar/com/amazonaws/services/s3/internal/RestUtils.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
* jar/com/amazonaws/services/s3/model/BucketPolicy.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
* jar/com/amazonaws/services/s3/internal/Mimetypes.java

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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SimpleMaterialProvider.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/EncryptionMaterialsFactory.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/EncryptedPutObjectRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/PutObjectRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/DecodedStreamBuffer.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/EncryptedPutObjectRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SSEAwsKeyManagementParams.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/ChunkContentIterator.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/PutInstructionFileRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/OnFileDelete.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/EncryptedInitiateMultipartUploadRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/PartCreationEvent.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/EncryptedGetObjectRequest.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/CloudFunctionConfiguration.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/internal/UploadImpl.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/transform/RequestXmlFactory.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/ListMultipartUploadsRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/AbortMultipartUploadRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/GeneratePresignedUrlRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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jar/com/amazonaws/services/s3/transfer/internal/CopyPartCallable.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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jar/com/amazonaws/services/s3/transfer/internal/S3RequestEndpointResolver.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/ObjectMetadata.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/transform/AbstractSSEHandler.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/internal/crypto/AdjustedRangeInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/transfer/model/CopyResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
jar/com/amazonaws/services/s3/model/HeadBucketRequest.java

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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/DualstackEndpointBuilder.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/internal/UploadPartCallable.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/transform/RequestPaymentConfigurationXmlFactory.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/StorageClass.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/VersionListing.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/LegacyS3ProgressListener.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/ProgressListener.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/InitiateMultipartUploadResult.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/CompleteMultipartUploadResult.java
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  */opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/internal/CompleteMultipartCopy.java
  */opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/transfer/internal/S3XmlResponseHandler.java
  */opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/CryptoConfiguration.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/GroupGrantee.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SetBucketLifecycleConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/S3VersionSummary.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/MultiFactorAuthentication.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/SetBucketVersioningConfigurationRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/internal/MD5DigestCalculatingInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-jar/com/amazonaws/services/s3/model/Permission.java

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/* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/internal/S3RequesterChargedResult.java
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Synchronous client for accessing Amazon S3.

<h1>Appendix: Amazon S3 client-side encryption meta information</h1>

<h2>Introduction</h2>

This appendix summarizes the current crypto related meta information associated with an S3 object encrypted using SDK client-side encryption. In SDK's terminology, these meta information are classified as "user metadata". In general, the meta information is just a map of key/value pairs. Physically they are persisted either as metadata of the encrypted S3 object, or as a separate S3 object called an "instruction file" (which is just a JSON file in plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding, such as <code>AES/CBC/PKCS5Padding</code>, please refer to Oracle's <a href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html">Java Cryptography Architecture Standard Algorithm Name Documentation</a> for more details.

<h2>S3 metadata vs instruction file</h2>

Note when a key/value pair is stored as "user metadata" as part of the S3 metadata, the SDK always adds an additional prefix of <b>x-amz-meta-</b> to the key name. In contrast, the SDK doesn't add any prefix when the key names are stored in an instruction file. (The reason has to do with how the http headers are handled.)

For example, <b>x-amz-key</b> would get stored as <b>x-amz-meta-x-amz-key</b> in S3 metadata. In contrast, <b>x-amz-key</b> would simply be stored as is (ie without the prefix) in an instruction file.

All the keys described below are considered "user metadata" by the SDK.

<h2>S3 v1 crypto meta information (supported by all SDK's)</h2>

For non-KMS client side encryption, this v1 crypto meta information is used to support the "Encryption Only" crypto mode (which involves the use of <code>AES/CBC/PKCS5Padding</code> for content encryption, and <code>AES/ECB</code> for encrypting the one-time randomly generated data key). For KMS client-side encryption, the v2 crypto meta information is used.
<table>
<thead>
<tr>
<th>key</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>x-amz-key</td>
<td>Content encrypting key (cek) in encrypted form, base64 encoded. The cek is randomly generated per S3 object, and is always an AES 256-bit key. The corresponding cipher is always &quot;AES/CBC/PKCS5Padding&quot;.</td>
</tr>
<tr>
<td>x-amz-iv</td>
<td>Randomly generated IV (per S3 object), base64 encoded</td>
</tr>
<tr>
<td>x-amz-matdesc</td>
<td>Customer provided material description in JSON (UTF8) format. Used to identify the client-side master key (ie used to encrypt/wrap the generated content encrypting key).</td>
</tr>
<tr>
<td>x-amz-unencrypted-content-length</td>
<td>Unencrypted content length (optional but should be specified whenever possible).</td>
</tr>
</tbody>
</table>

**S3 v2 crypto meta information (currently supported by the Java SDK)**

This v2 crypto meta information is used to support both authenticated encryption (which involves the use of \ `<code>AES/GCM/NoPadding</code>` for content encryption, and key wrapping for the one-time randomly generated data key), and KMS client-side encryption (which can either be encryption-only or authenticated encryption.)

<table>
<thead>
<tr>
<th>key</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>x-amz-key-v2</td>
<td>CEK in key wrapped form. This is necessary so that the S3 encryption client that doesn't recognize the v2 format will not mistakenly decrypt S3 object encrypted in v2 format.</td>
</tr>
<tr>
<td>x-amz-iv</td>
<td></td>
</tr>
<tr>
<td><strong>x-amz-matdesc</strong></td>
<td>Customer provided material description in JSON format. (Same as v1). Used to identify the client-side master key.</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>* For KMS client side encryption, the KMS Customer Master Key ID is stored as part of the material description, <code>&lt;b&gt;x-amz-matdesc&lt;/b&gt;</code>, under the key-name <code>&lt;code&gt;</code>kms_cmk_id`&lt;/code&gt;.</td>
</tr>
<tr>
<td><strong>x-amz-unencrypted-content-length</strong></td>
<td>Unencrypted content length. (optional but should be specified whenever possible. Same as v1.)</td>
</tr>
<tr>
<td><strong>x-amz-wrap-alg</strong></td>
<td>Key wrapping algorithm used.</td>
</tr>
<tr>
<td></td>
<td>* Supported values: * <code>&lt;code&gt;</code>AESWrap<code>&lt;/code&gt;</code>, <code>&lt;code&gt;</code>RSA/ECB/OAEPWithSHA-256AndMGF1Padding<code>&lt;/code&gt;</code>, <code>&lt;code&gt;</code>kms<code>&lt;/code&gt;</code></td>
</tr>
<tr>
<td></td>
<td>* No standard key wrapping is used if this meta information is absent</td>
</tr>
<tr>
<td></td>
<td>* Always set to <code>&lt;b&gt;</code>kms<code>&lt;/b&gt;</code> if KMS is used for client-side encryption</td>
</tr>
<tr>
<td><strong>x-amz-cek-alg</strong></td>
<td>Content encryption algorithm used.</td>
</tr>
<tr>
<td></td>
<td>* Supported values: * <code>&lt;code&gt;</code>AES/GCM/NoPadding<code>&lt;/code&gt;</code>, <code>&lt;code&gt;</code>AES/CBC/PKCS5Padding<code>&lt;/code&gt;</code></td>
</tr>
<tr>
<td></td>
<td>* Default to <code>&lt;code&gt;</code>AES/CBC/PKCS5Padding<code>&lt;/code&gt;</code> if this key is absent</td>
</tr>
<tr>
<td><strong>x-amz-tag-len</strong></td>
<td>Tag length (in bits) when AEAD is in use.</td>
</tr>
<tr>
<td></td>
<td>* Only applicable if AEAD is in use. This meta information is absent otherwise, or if KMS is in use.</td>
</tr>
<tr>
<td></td>
<td>* Supported value: <code>&lt;code&gt;</code>128<code>&lt;/code&gt;</code></td>
</tr>
</tbody>
</table>
All client-side KMS protected S3 objects are stored in v2 crypto meta information format. However, the key wrapping algorithm, `<b>x-amz-wrap-alg</b>`, is always set to `<b>"kms"</b>`.

The KMS Customer Master Key ID is currently stored as part of the material description, `<b>x-amz-matdesc</b>`, under the key-name `<b>x-amz-cmk_id</b>`.

Sample S3 crypto meta information for KMS client-side encryption:

<table>
<thead>
<tr>
<th>CryptoMode: Encryption Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>x-amz-meta-x-amz-key-v2:</td>
</tr>
<tr>
<td>CiAJ2GqwpJRnt4izuwoalC2YdNRNSMEsIg5rw3pEI+J8hkKnAQEBAwB4CdhqsKSUZ7elS7o8KGuQtmHTUTUjBLJRu8N6RCPifIAAABB+MHwGCSqGSlh3DQEHBqBvMG0CAQAwAUYJKoZIhvNAQcBMB4GCWCGSAFlAwQBBljARBAyD0rzN3KHvIwICARACoowhZ6xA8s0b3Z0mN3uKFiCNKvIlCPKlchALvG1oVLnf86mCZJNpTXtwMKKkDocVj3Z1GZTuFyF0OH</td>
</tr>
<tr>
<td>x-amz-iv: xqOHB+M6yUogwG5SHJM3Q==</td>
</tr>
<tr>
<td>x-amz-unencrypted-content-length: 32768</td>
</tr>
<tr>
<td>x-amz-cek-alg: AES/CBC/PKCS5Padding</td>
</tr>
<tr>
<td>x-amz-wrap-alg: kms</td>
</tr>
<tr>
<td>x-amz-matdesc: &quot;{&quot;kms_cmk_id&quot;:&quot;:&quot;d3fd2273-4ca0-4da5-b1c2-c89742ec6a26&quot;}&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CryptoMode: Authenticated Encryption</th>
</tr>
</thead>
<tbody>
<tr>
<td>x-amz-meta-x-amz-key-v2:</td>
</tr>
<tr>
<td>CiAJ2GqwpJRnt4izuwoalC2YdNRNSMEsIg5rw3pEI+J8hkKnAQEBAwB4CdhqsKSUZ7elS7o8KGuQtmHTUTUjBLJRu8N6RCPifIAAABB+MHwGCSqGSlh3DQEHBqBvMG0CAQAwAUYJKoZIhvNAQcBMB4GCWCGSAFlAwQBBljARBAyD0rzN3KHvIwICARACoowhZ6xA8s0b3Z0mN3uKFiCNKvIlCPKlchALvG1oVLnf86mCZJNpTXtwMKKkDocVj3Z1GZTuFyF0OH</td>
</tr>
<tr>
<td>x-amz-iv: VZBkysij6DhrUMye</td>
</tr>
<tr>
<td>x-amz-unencrypted-content-length: 32768</td>
</tr>
<tr>
<td>x-amz-cek-alg: AES/GCM/NoPadding</td>
</tr>
<tr>
<td>x-amz-wrap-alg: kms</td>
</tr>
<tr>
<td>x-amz-matdesc: &quot;{&quot;kms_cmk_id&quot;:&quot;:&quot;d3fd2273-4ca0-4da5-b1c2-c89742ec6a26&quot;}&quot;</td>
</tr>
<tr>
<td>x-amz-tag-len: 128</td>
</tr>
</tbody>
</table>

S3 metadata of an instruction file:
* The following key is always included as part of the S3 metadata of the
* instruction file (which is just an S3 object). Since the SDK treats this key
* as "user metadata", the key name is always prefixed with `<b>x-amz-meta-</b>`
* when physically stored.
*<p>
*<table border=1>
*<tr aligned="left">
*<th>key</th>
*<th>description</th>
*</tr>
*<tr>
*<td width="200"><b>x-amz-crypto-instr-file</b></td>
*<td>the presence of this key is used to indicate this S3 object is an
* instruction file (of an associated client-side encrypted S3 object).</td>
*</tr>
*<tr>
*<td width="200"><b>x-amz-crypto-instr-file</b></td>
*<td>the presence of this key is used to indicate this S3 object is an
* instruction file (of an associated client-side encrypted S3 object).</td>
*</tr>
*</table>
*/

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  jar/com/amazonaws/services/s3/model/BucketAccelerateStatus.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/GetObjectAclRequest.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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  jar/com/amazonaws/services/s3/model/ObjectTagging.java
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  jar/com/amazonaws/services/s3/model/SetObjectTaggingResult.java
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  jar/com/amazonaws/services/s3/model/SetObjectTaggingRequest.java
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  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
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  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
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  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
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  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
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  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
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  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/internal/crypto/SecuredCEK.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
  jar/com/amazonaws/services/s3/internal/crypto/KMSSecuredCEK.java
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  jar/com/amazonaws/services/s3/model/WebsiteConfiguration.java
* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1-
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jar/com/amazonaws/services/s3/internal/crypto/ContentCryptoScheme.java
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* /opt/cola/permits/1136045881_1613664747.47/0/aws-java-sdk-s3-1-11-61-sources-1.jar/com/amazonaws/services/s3/internal/crypto/CryptoRuntime.java

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1.57 aopalliance-repackaged 2.3.0-b10
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WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

Contributors (in approximate order of appearance)
[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

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early prototype routines.

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early prototype routines;
ongoing project coordination/maintenance;
implementation of spin locks and barriers;
various enhancements;
bug fixes;
documentation;
testsuite.

Robert Colquhoun
early bug fixes.

John E. Bossom
contributed substantial original working implementation;
ongoing guidance and standards interpretation.

Anders Norlander
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Bug fix.

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Bug fix.

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(pthread_once cancellation added by rpj).
Vladimir Kliatchkov
reimplemented pthread_once with the same form
as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

## Versioned libraries rules
## 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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Because of this blurred distinction, using the ordinary General
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@end smallexample

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@example
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@end small example

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

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

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

5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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permitted, and provided that you do these two things:

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facilities. This must be distributed under the terms of the
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That's all there is to it!

1.87 diffutils 3.3-5.el7
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

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

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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

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

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

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(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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*/

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

That's all there is to it!
#
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image::$(BSD_LIB)

$(BSD_LIB): $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
$(MV) pic/$(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 EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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Gadi Oxman, August 1995

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1.103 gdbm 1.10 8.el7

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Mesa 3-D graphics library
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license of each. The license of Nmap itself is in the COPYING file.

On all platforms, Nmap is normally linked with:
o libpcap: Network packet capture library. Distributed with Nmap in the
libpcap subdirectory.
http://www.tcpdump.org/
o libdnet: Networking library, used for low-level tasks such as sending
ethernet frames. A modified version is distributed with Nmap in the
libdnet-stripped subdirectory. A summary of Nmap-local modifications
is in the file NMAP_MODIFICATIONS.
http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's
version detection and is also made available as an NSE library.
Distributed with Nmap in the libpcre subdirectory.
http://www.pcre.org/

- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
http://www.lua.org/

- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
http://www.openssl.org/

- LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/


On Windows only, Nmap uses:
- WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/BSD-simplified.

Zenmap and Ndiff require:
- Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
- GLib, GTK+. ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/LGPL-2.
http://www.gtk.org/

- Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/LGPL-2.1 and licenses/MPL-1.1.
http://www cairographics.org/

- libgailutil: Accessibility support for GTK+.

- libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

- zlib and bzip2: compression libraries.

- Expat: XML parser library.
http://expat.sourceforge.net/
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o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
  http://www.x.org/ http://www.macports.org/

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Written by: Philip Hazel
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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
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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b) You must cause the files modified to carry prominent notices
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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

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

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

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

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

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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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 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
public static String getVersion()
{
    return getProduct() + "+getImplementationLanguage() + " 
           +getMajorVersionNum() + "+getReleaseVersionNum() + " 
           +( (getDevelopmentVersionNum() > 0) ? 
             ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * 
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
well as defect fixes. 'D' drops may not be as stable as the final releases.

```java
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
```

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 */
/**
 * This is a special exception that is used to stop parsing when search for an element. For instance, when searching for xml:stylesheet PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

```
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```

```
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 */
/**
 * This is a special exception that is used to stop parsing when search for an element. For instance, when searching for xml:stylesheet PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
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 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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 * limitations under the License.
 */

/*
 * $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
 */

package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
* the Serializer release.
* This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
* /
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.<i>r</i>[.dd| <B>D</B>nn]"</CODE>.
 * 
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 * */
public static String getVersion()
{
    return getProduct() + " " + getImplementationLanguage() + " "
        + getMajorVersionNum() + "." + getReleaseVersionNum() + "." +
        (getDevelopmentVersionNum() > 0) ?
        ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 * 
 * @param argv command line arguments, unused.
 * */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 * */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 * */
public static String getImplementationLanguage()
{ return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */

public static int getDevelopmentVersionNum()
{
    try {
        if (((new String(Settings.DEVELOPER)).length() == 0))
            return 0;
        else
            return Integer.parseInt(Settings.DEVELOPER);
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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*/
/**  
* Major version number.  
* Version number. This changes only when there is a  
* significant, externally apparent enhancement from  
* the previous release. 'n' represents the n'th  
* version.  
*  
* Clients should carefully consider the implications  
* of new versions as external interfaces and behaviour  
* may have changed.  
*/

Found in path(s):  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java  
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java

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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Makefile.inc
jar/org/apache/xml/serializer/output_html.properties
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 */

/**
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/**
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xslt.runtime.operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

parser code {
  /**
   * Used by function calls with no args.
   */
static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}
public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "[@{namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
    public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
        int nodeType;
        if (test == null) { // "*
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                        (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
            return new StepPattern(axis, nodeType, predicates);
        } else if (test instanceof Integer) {
            nodeType = ((Integer) test).intValue();
            return new StepPattern(axis, nodeType, predicates);
        } else {
            QName name = (QName)test;
            boolean setPriority = false;
            if (axis == Axis.NAMESPACE) {
                nodeType = (name.toString().equals("*")) ? -1
                        : _xsltc.registerNamespacePrefix(name);;
            } else {
                final String uri = name.getNamespace();
                final String local = name.getLocalPart();
                final QName namespace_uri =
                    _parser.getQNameIgnoreDefaultNs("namespace-uri");
                    Name nodeType = __prefixes_0;
                    return new StepPattern(axis, nodeType, predicates);
                }
            } return new StepPattern(axis, nodeType, predicates);
        } else {
            QName name = (QName)test;
            boolean setPriority = false;
            if (axis == Axis.NAMESPACE) {
                nodeType = (name.toString().equals("*")) ? -1
                        : _xsltc.registerNamespacePrefix(name);;
            } else {
                final String uri = name.getNamespace();
                final String local = name.getLocalPart();
                final QName namespace_uri =
                    _parser.getQNameIgnoreDefaultNs("namespace-uri");
                return new StepPattern(axis, nodeType, predicates);
            } return new StepPattern(axis, nodeType, predicates);
        } else {
            QName name = (QName)test;
            boolean setPriority = false;
            if (axis == Axis.NAMESPACE) {
                nodeType = (name.toString().equals("*")) ? -1
                        : _xsltc.registerNamespacePrefix(name);;
            } else {
                final String uri = name.getNamespace();
                final String local = name.getLocalPart();
                final QName namespace_uri =
                    _parser.getQNameIgnoreDefaultNs("namespace-uri");
                return new StepPattern(axis, nodeType, predicates);
            } return new StepPattern(axis, nodeType, predicates);
        } else {
            QName name = (QName)test;
            boolean setPriority = false;
            if (axis == Axis.NAMESPACE) {
                nodeType = (name.toString().equals("*")) ? -1
                        : _xsltc.registerNamespacePrefix(name);;
            } else {
                final String uri = name.getNamespace();
                final String local = name.getLocalPart();
                final QName namespace_uri =
                    _parser.getQNameIgnoreDefaultNs("namespace-uri");
                return new StepPattern(axis, nodeType, predicates);
            } return new StepPattern(axis, nodeType, predicates);
// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
        predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
        new Predicate(
            new EqualityExpr(Operators.EQ,
                new NamespaceUriCall(namespace_uri),
                new LiteralExpr(uri)));
    }

    if (local.equals("*")) {
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            NodeTest.ELEMENT;
    } else if (local.equals("@*")) {
        nodeType = NodeTest.ATTRIBUTE;
    } else {
        nodeType = (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) :
            _xslt.registerElement(name);
    }

    final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }

    return result;
}

public int findNodeType(int axis, Object test) {
    if (test == null) { // *
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            NodeTest.ELEMENT;
    } else if (test instanceof Integer) {
return ((Integer)test).intValue();
}
else {
QName name = (QName)test;

if (axis == Axis.NAMESPACE) {
    return (name.toString().equals("*")) ? -1
        : _xsltc.registerNamespacePrefix(name);
}

if (name.getNamespace() == null) {
    final String local = name.getLocalPart();

    if (local.equals("*")) {
        return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
            : NodeTest.ELEMENT;
    }
    else if (local.equals("@*")) {
        return NodeTest.ATTRIBUTE;
    }
}

return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
    : _xsltc.registerElement(name);
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 * *
 * @param lineNumber Line where the current expression is defined.
 * @param external   Set to <tt>true</tt> if this expression is
 *                   compiled in a separate module.
 * *
 * */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
** Lookup a variable or parameter in the symbol table given its name.

* @param name Name of the symbol being looked up.

*/
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber, _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep");
        return rlp;
    }
}

/**
* Returns true if the axis applies to elements only. The axes
* child, attribute, namespace, descendant result in non-empty
* nodesets only if the context node is of type element.
*/

    public boolean isElementAxis(int axis) {
      return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
              axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
    }
    }

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;
	non terminal Expression Expr, Argument, LocationPath;

non terminal Expression Predicate, FilterExpr, Step;

non terminal Expression OrExpr, AndExpr, EqualityExpr;

non terminal Expression RelationalExpr, AdditiveExpr;

non terminal Expression MultiplicativeExpr, UnaryExpr;

non terminal Expression VariableReference, FunctionCall;

non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;

non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;

non terminal Pattern Pattern;

non terminal Pattern LocationPathPattern;

non terminal StepPattern ProcessingInstructionPattern;

non terminal RelativePathPattern RelativePathPattern;

non terminal StepPattern StepPattern;

non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLOM;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
           { RESULT = pattern; }
           | EXPRESSION Expr:expr
           { RESULT = expr; }

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
            { RESULT = lpp; }
            | LocationPathPattern:lpp VBAR Pattern:p
            { RESULT = new AlternativePattern(lpp, p); }

LocationPathPattern ::= SLASH
                         { RESULT = new AbsolutePathPattern(null); }
                         | SLASH RelativePathPattern:rpp
                         { RESULT = new AbsolutePathPattern(rpp); }
                         | IdKeyPattern:ikp
                         { RESULT = ikp; }
                         | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
                         { RESULT = new ParentPattern(ikp, rpp); }
                         | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
                         { RESULT = new AncestorPattern(ikp, rpp); }
                         | DSLASH RelativePathPattern:rpp
{
    : RESULT = new AncestorPattern(rpp); :}

| RelativePathPattern|rpp
|: RESULT = rpp; : |

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    {
      : RESULT = new IdPattern(l);
      parser.setHasIdCall(true);
    :}

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
|: RESULT = new KeyPattern(l1, l2); : |

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
    {
      : RESULT = new ProcessingInstructionPattern(l); : |
    :}

RelativePathPattern ::= StepPattern:sp
    {
      : RESULT = sp; : |
    :}

| StepPattern|sp SLASH RelativePathPattern|rpp
|: RESULT = new ParentPattern(sp, rpp); : |

| StepPattern|sp DSLASH RelativePathPattern|rpp
|: RESULT = new AncestorPattern(sp, rpp); : |

StepPattern ::= NodeTestPattern|nt
    {
    RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
    :}

| NodeTestPattern|nt Predicates|pp
|: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); : |

| ProcessingInstructionPattern|pip
|: RESULT = pip; : |

| ProcessingInstructionPattern|pip Predicates|pp
|: RESULT = (ProcessingInstructionPattern|pip.setPredicates(pp); : |

| ChildOrAttributeAxisSpecifier|axis NodeTestPattern|nt
|: RESULT = parser.createStepPattern(axis.intValue(), nt, null);
    : |

| ChildOrAttributeAxisSpecifier|axis
NodeTestPattern|nt Predicates|pp
::
RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
::

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
| ::
RESULT = pip;  // TODO: report error if axis is attribute
::;

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
| ::
// TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
::;

NodeTestPattern ::= NameTestPattern:nt
| :: RESULT = nt; ::

| NODE
| :: RESULT = new Integer(NodeTest.ANODE); ::

| TEXT
| :: RESULT = new Integer(NodeTest.TEXT); ::

| COMMENT
| :: RESULT = new Integer(NodeTest.COMMENT); ::

| PI
| :: RESULT = new Integer(NodeTest.PI); ::;

NameTestPattern ::= STAR
| :: RESULT = null; ::

| QName:qn
| :: RESULT = qn; ::;

ChildOrAttributeAxisSpecifier ::= ATSIGN
| :: RESULT = new Integer(Axis.ATTRIBUTE); ::

| CHILD DCOLON
| :: RESULT = new Integer(Axis.CHILD); ::

| ATTRIBUTE DCOLON
| :: RESULT = new Integer(Axis.ATTRIBUTE); ::;

Predicates ::= Predicate:p
| ::
Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;

| Predicate:p Predicates:pp
{: pp.addElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{: RESULT = new Predicate(e); :};

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}

| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee
{: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
{: RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

| EqualityExpr:ee NE RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
{: RESULT = ae; :}

| RelationalExpr:re LT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

| RelationalExpr:re GT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}
RelationalExpr re LE AdditiveExpr ae
{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

RelationalExpr re GE AdditiveExpr ae
{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr me
{: RESULT = me; :}

AdditiveExpr ae PLUS MultiplicativeExpr me
{: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}

AdditiveExpr ae MINUS MultiplicativeExpr me
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr ue
{: RESULT = ue; :}

MultiplicativeExpr me MULT UnaryExpr ue
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

MultiplicativeExpr me DIV UnaryExpr ue
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

MultiplicativeExpr me MOD UnaryExpr ue
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr ue
{: RESULT = ue; :}

MINUS UnaryExpr ue
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr pe
{: RESULT = pe; :}

PathExpr pe VBAR UnionExpr rest
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath lp
{: RESULT = lp; :}

FilterExpr fexp
{: RESULT = fexp; :}

FilterExpr fexp SLASH RelativeLocationPath rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}
// Expand '//' into '/descendant-or-self::node()' or
// into /descendant-or-self::*/

int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}

| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT = step; :}

| RelativeLocationPath:rlp SLASH Step:step
{:}
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step;  // Remove '.' from the middle
}
else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp;  // Remove 'l.' from the end
}
else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
}
}

| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{
final Step right = (Step)step;
final int axis = right.getAxis();
final int type = right.getNodeType();
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress './/child:E' into 'descendant::E' - if possible
    if (predicates == null) {
        right.setAxis(Axis.DESCENDANT);
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            RESULT = right;
        } else {
            // Expand 'rlp//child::E' into 'rlp/descendant::E'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
            RESULT = new ParentLocationPath(left, right);
        }
    } else {
        // Expand './step' -> 'descendant-or-self::*/step'
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            Step left = new Step(Axis.DESCENDANTORSELF,
                                  DTM.ELEMENT_NODE, null);
            RESULT = new ParentLocationPath(left, right);
        } else {
            // Expand './step' -> 'rlp/descendant-or-self::*/step'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
            Step mid = new Step(Axis.DESCENDANTORSELF,
                                 DTM.ELEMENT_NODE, null);
            ParentLocationPath ppl = new ParentLocationPath(mid, right);
            RESULT = new ParentLocationPath(left, ppl);
        }
    }
} else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) { 
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
}

Step middle = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
ParentLocationPath ppl = new ParentLocationPath(middle, right);
RESULT = new ParentLocationPath(left, ppl);
}
else {
  // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step middle = new Step(Axis.DESCENDANTORSELF, DOM.NO_TYPE, null);
  ParentLocationPath ppl = new ParentLocationPath(middle, right);
  RESULT = new ParentLocationPath(left, ppl);
}
  :;};

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
  {
    //
    // Expand '//' into '/descendant-or-self::node/*' or
    // into /descendant-or-self::*
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
    {
      nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step, (RelativeLocationPath) rlp));
  }:;

Step ::= NodeTest:ntest
  {
    if (ntest instanceof Step) {
      RESULT = (Step)ntest;
    }
    else {
      RESULT = new Step(Axis.CHILD, parser.findNodeType(Axis.CHILD, ntest), null);
    }
  }:;

| NodeTest:ntest Predicates:pp
  {
    if (ntest instanceof Step) {
Step step = (Step)ntest;
step.addPredicates(pp);
RESULT = (Step)ntest;
}
else {
  RESULT = new Step(Axis.CHILD,
    parser.findNodeType(Axis.CHILD, ntest), pp);
}
;

| AxisSpecifier:axis NodeTest:ntest Predicates:pp |
| : RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    pp);
|

| AxisSpecifier:axis NodeTest:ntest |
| : RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    null);
|

| AbbreviatedStep:abbrev |
| : RESULT = abbrev; : ;|

AxisSpecifier ::= AxisName:an DCOLON |
| : RESULT = an; : |

| ATSIGN |
| : RESULT = new Integer(Axis.ATTRIBUTE); : ;|

AxisName ::= ANCESTOR |
| : RESULT = new Integer(Axis.ANCESTOR); : |

| ANCESTORORSELF |
| : RESULT = new Integer(Axis.ANCESTORORSELF); : |

| ATTRIBUTE |
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

| CHILD |
| : RESULT = new Integer(Axis.CHILD); : |

| DESCENDANT |
| : RESULT = new Integer(Axis.DESCENDANT); : |

| DESCENDANTORSELF |
| : RESULT = new Integer(Axis.DESCENDANTORSELF); : |
| FOLLOWING
| RESULT = new Integer(Axis.FOLLOWING); |

| FOLLOWINGSIBLING
| RESULT = new Integer(Axis.FOLLOWINGSIBLING); |

| NAMESPACE
| RESULT = new Integer(Axis.NAMESPACE); |

| PARENT
| RESULT = new Integer(Axis.PARENT); |

| PRECEDING
| RESULT = new Integer(Axis.PRECEDING); |

| PRECEDINGSIBLING
| RESULT = new Integer(Axis.PRECEDINGSIBLING); |

| SELF
| RESULT = new Integer(Axis.SELF); |

AbbreviatedStep ::= DOT
| RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); |

| DDOT
| RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); |

FilterExpr ::= PrimaryExpr:primary
| RESULT = primary; |

| PrimaryExpr:primary Predicates:pp
| RESULT = new FilterExpr(primary, pp); |

PrimaryExpr ::= VariableReference:vr
| RESULT = vr; |

| LPAREN Expr:ex RPAREN
| RESULT = ex; |

| Literal:string
| |
| /*
| * If the string appears to have the syntax of a QName, store
| * namespace info in the literal expression. This is used for
| * element-available and function-available functions, among
| * others. Also, the default namespace must be ignored.
| */
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string) :
    new LiteralExpr(string, namespace);

| INT:num
| : long value = num.longValue();
| if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
| RESULT = new RealExpr(value);
| }
| else {
|     if (num.doubleValue() == -0)
|         RESULT = new RealExpr(num.doubleValue());
|     else if (num.intValue() == 0)
|         RESULT = new IntExpr(num.intValue());
|     else if (num.doubleValue() == 0.0)
|         RESULT = new RealExpr(num.doubleValue());
|     else
|         RESULT = new IntExpr(num.intValue());
| }
| :}

| REAL:num
| : RESULT = new RealExpr(num.doubleValue()); :

| FunctionCall:fc
| : RESULT = fc; :;

VariableReference ::= DOLLAR VariableName:varName
| :
| // An empty qname prefix for a variable or parameter reference
| // should map to the null namespace and not the default URI.
| SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    }
}
else {
    RESULT = new UnresolvedRef(varName);
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
;

FunctionCall ::= FunctionName:fname LPAREN RPAREN

{:}

if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
| { |
  if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
    parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
  }
  else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
  }
if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}

else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}

// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}

else {
    RESULT = new FunctionCall(fname, argl);
}

NonemptyArgumentList ::= Argument:arg
Vector temp = new Vector();
temp.addElement(arg);
RESULT = temp;

| Argument: arg COMMA NonemptyArgumentList: argl |
| : argl.insertElementAt(arg, 0); RESULT = argl; |

FunctionName ::= QName: fname
{: RESULT = fname; :};

VariableName ::= QName: vname
{: RESULT = vname; :};

Argument ::= Expr: ex
{: RESULT = ex; :};

NodeTest ::= NameTest: nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PIPARAM LPAREN Literal: l RPAREN |
{: QName name = parser.getQNameIgnoreDefaultNs("name");
Expression exp = new EqualityExpr(Operators.EQ,
new NameCall(name),
new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}

| PI
{: RESULT = new Integer(NodeTest.PI); :};
NameTest ::= STAR
  [: RESULT = null: :]

| QName:qn
  [: RESULT = qn: :]

QName ::= QNAME:qname
  [: RESULT = parser.getQNameIgnoreDefaultNs(qname): :]

| DIV
  [: RESULT = parser.getQNameIgnoreDefaultNs("div"): :]

| MOD
  [: RESULT = parser.getQNameIgnoreDefaultNs("mod"): :]

| KEY
  [: RESULT = parser.getQNameIgnoreDefaultNs("key"): :]

| ANCESTOR
  [: RESULT = parser.getQNameIgnoreDefaultNs("child"): :]

| ANCESTORORSELF
  [: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"): :]

| ATTRIBUTE
  [: RESULT = parser.getQNameIgnoreDefaultNs("attribute"): :]

| CHILD
  [: RESULT = parser.getQNameIgnoreDefaultNs("child"): :]

| DESCENDANT
  [: RESULT = parser.getQNameIgnoreDefaultNs("descendant"): :]

| DESCENDANTORSELF
  [: RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"): :]

| FOLLOWING
  [: RESULT = parser.getQNameIgnoreDefaultNs("following"): :]

| FOLLOWINGSIBLING
  [: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"): :]

| NAMESPACE
  [: RESULT = parser.getQNameIgnoreDefaultNs("namespace"): :]

| PARENT
  [: RESULT = parser.getQNameIgnoreDefaultNs("parent"): :]
 PRECEDING
{
  : RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

 PRECEDINGSIBLING
{
  : RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

 SELF
{
  : RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

 ID
{
  : RESULT = parser.getQNameIgnoreDefaultNs("id"); :};

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.cup

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 */

// is found, then throw a special exception in order to terminate

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%unicode
%class XPathLexer
%yyeof
%
{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '	' || c == '' || c == '
' || c == '');
    }

    /**
     * If symbol is not followed by `::` or `(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;

        // Skip whitespace
        while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
        }
// If end of buffer, can't disambiguate :(
if (index >= yy_buffer_read) {
    // Can't disambiguate, so return as symbol
    return new Symbol(ss);
}

// Return symbol if next token is '::' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
       yy_buffer[index] == '(') ?
    newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1:    // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.AND:
            case sym.OR:
            case sym.MOD:
            case sym.DIV:
            case sym.MULT:
            case sym.SLASH:
            case sym.DSLASH:
            case sym.VBAR:
            case sym.PLUS:
            case sym.MINUS:
            case sym.EQ:
            case sym.NE:
            case sym.LT:
            case sym.LE:
            case sym.GT:
            case sym.GE:
                return newSymbol(sym.QNAME, yytext());
        }
    return newSymbol(ss);
}
/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLSH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.LE:
        case sym.GT:
        case sym.GE:
        return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}
Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new Symbol(ss, value);
}

%eofval{
    return newSymbol(sym.EOF);
}

%yylexthrow{
    Exception
}

Letter={BaseChar}|{Ideographic}

BaseChar=[u0041-u005A|u0061-u007A|u00C0-u00D6|u00D8-u00F6|u00F8-u00FF]
u0100|u0131|u0134-
u013E|u0141|u0148|u014A|u017E|u0180-|u01C3|u01CD-|u01F0|u01F4-|u01F5|u01FA-|u0217|u0250-
u02A8|u02BB|u02C1|u0386|u0388-|u038A|u038C|u038E-|u03A1|u03A3-|u03CE|u03D0-
u03D6|u03DA|u03DC|u03DE|u03E0-|u03F3-|u0401-|u040C|u040E-|u04FF|u0451-|u045C|u045E-
u0481|u0490-|u04C4-|u04C7-|u04C8-|u04C9|u04CC|u04D0-|u04EB|u04EE-|u04F5-|u04F7-|u0531-
u0556|u0559|u0561-|u0586|u05D0-|u05EA|u05F0-|u05F2-|u0621-|u063A|u0641-|u064A|u0671-|u06B7|u06BA-
u06BE|u06C0-|u06CE|u06D0-|u06D3-|u06D5-|u06E6-|u06F5-|u06F7-|u06F9-|u06F5-
u06F9|u06FC|u06FF-|u0714|u0716|u0718-|u071D|u071F-|u0721|u0723-|u0725|u0727-|u0729|u072B-|u072D|u072F-|u0731|u0733-|u0735|u0737-|u0739|u073B-|u073D|u073F-|u0741|u0743-|u0745|u0747-|u0749|u074B-|u074D|u074F-|u0751|u0753-|u0755|u0757-|u0759|u075B-|u075D|u075F-|u0761|u0763-|u0765|u0767-|u0769|u076B-|u076D|u076F-|u0771|u0773-|u0775|u0777-|u0779|u077B-|u077D|u077F-|u0781|u0783-|u0785|u0787-|u0789|u078B-|u078D|u078F-|u0791|u0793-|u0795|u0797-|u0799|u079B-|u079D|u079F-|u07A1|u07A3-|u07A5|u07A7-|u07A9|u07AB-|u07AD|u07AF-|u07B1|u07B3-|u07B5|u07B7-|u07B9|u07BB-|u07BD|u07BF-|u07C1|u07C3-|u07C5|u07C7-|u07C9|u07CB-|u07CD|u07CF-|u07D1|u07D3-|u07D5|u07D7-|u07D9|u07DB-|u07DD|u07DF-|u07E1|u07E3-|u07E5|u07E7-|u07E9|u07EB-|u07ED|u07EF-|u07F1|u07F3-|u07F5|u07F7-|u07F9|u07FB-|u07FF-|u1000-|u1002-|u1004-|u1006-|u1008-|u100A-|u100C-|u100E-|u100G-|u100I-|u100K-|u100M-|u100Q-|u100S-|u100U-|u100W-|u100Y-|u1010-|u1012-|u1014-|u1016-|u1018-|u101A-|u101C-|u101E-|u1020-|u1022-|u1024-|u1026-|u1028-|u102A-|u102C-|u102E-|u1030-|u1032-|u1034-|u1036-|u1038-|u103A-|u103C-|u103E-|u1040-|u1042-|u1044-|u1046-|u1048-|u104A-|u104C-|u104E-|u1050-|u1052-|u1054-|u1056-|u1058-|u105A-|u105C-|u105E-|u1060-|u1062-|u1064-|u1066-|u1068-|u106A-|u106C-|u106E-|u1070-|u1072-|u1074-|u1076-|u1078-|u107A-|u107C-|u1080-|u1082-|u1084-|u1086-|u1088-|u108A-|u108C-|u108E-|u1090-|u1092-|u1094-|u1096-|u1098-|u109A-|u109C-|u109E-|u10A0-|u10A2-|u10A4-|u10A6-|u10A8-|u10AC-|u10B0-|u10B2-|u10B4-|u10B6-|u10B8-|u10BA-|u10BC-|u10BE-|u10B2-|u10B5-|u10B7-|u10B9-|u10BB-|u10BD-|u10BF-|u10C0-|u10C2-|u10C4-|u10C6-|u10C8-|u10CA-|u10CC-|u10CE-|u10C8-|u10CF-|u10D1-|u10D3-|u10D5-|u10D7-|u10D9-|u10DB-|u10DD-|u10DF-

Ideographic=[u4E00-u9FA5]|u3007|u3021-|u3029]

CombiningChar=[u0300-u0345]|u0360-u0361|u0483-u0486|u0591-|u05A1|u05A3-u05B9|u05BB-
Digit=[\u0030-\u0039٠-\u0669۰-\u06F9०-\u096F০-\u09EF੦-\u0A6F૦-\u0AEF୦-\u0B6F௧-\u0BEF౦-\u0C6F೦-\u0CEF൦-\u0D6F๐-\u0E59໐-\u0ED9\u0EF20-\u0F29]
Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\300-\u3035\u309D-\u309E\u30FC-\u30FE]
NCName={Letter}"[NCNameStartChar](NCNameChar)"* 
NCNameChar=[Letter]|{Digit}|"."|"."|"."|(CombiningChar)|(Extender)|[NCNameStartChar]|\u00B7|\u0300-\u036F|\u0370-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFD] | |(HighSurrogate) | (LowSurrogate) 
HighSurrogate=[\u0D800-\uDBFF]
LowSurrogate=[\uDC00-\uDFFF]

```% %
*"  { return disambiguateStar(); }
/"  { return newSymbol(sym.SLASH); }
+"  { return newSymbol(sym.PLUS); }
-"  { return newSymbol(sym.MINUS); }
"div"  { return disambiguateOperator(sym.DIV); }
"mod"  { return disambiguateOperator(sym.MOD); }
"::"  { return newSymbol(sym.DCOLON); }
".,"  { return newSymbol(sym.COMMA); }
"@"  { return newSymbol(sym.ATSIGN); }
"\"  { return newSymbol(sym.DDOT); }
"\"  { return newSymbol(sym.VBAR); }
"$"  { return newSymbol(sym.DOLLAR); }
"//"  { return newSymbol(sym.DLSlash); }
"="  { return newSymbol(sym.EQ); }
"!="  { return newSymbol(sym.NE); }
```
{ throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler(xpath.lex
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*/

package org.apache.xalan.processor;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/
public class XSLProcessorVersion
{

/**
* Print the processor version to the command line.
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}
/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE = @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
a specific release. D01 is the first development drop
of a new release.

Development drops are works in progress towards a
completed, final release. A specific development drop
may not completely implement all aspects of a new
feature, which may take several development drops to
complete. At the point of the final drop for the
release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as
well as defect fixes. 'D' drops may not be as stable as
the final releases.

```
public static final int DEVELOPMENT = 0;
```

```*/
* Version String like `<CODE>"<B>Xalan</B> <B>Language</B> v.r[.dd| <B>D</B>nn"]</CODE>.
* Semantics of the version string are identical to the Xerces project.</P>
*/
```

```public static final String S_VERSION = PRODUCT+"+LANGUAGE+" "
+VERSION+".+RELEASE+".
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
 : (""+MAINTENANCE));
```
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html

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 */
/** Proprietary, built in functions */

// current function string (Proprietary).

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
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Joseph Reagle <mailto:site-policy@w3.org>
Last revised by Reagle $Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) $

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1.119 assertj-core 2.4.1

1.120 open-ws 1.5.5

1.120.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/IssuerMarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/AttributedURI.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/Security.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wspolicy/WSPolicyObjectBuilder.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/KeySize.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/BinaryExchangeUnmarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/RequestSecurityTokenImpl.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/LifetimeImpl.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/RetryAfterUnmarshaller.java
* /opt/cola/permits/1001075398_1611179403.65/0/openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/MetadataMarshaller.java
jar/org/opensaml/ws/wstrust/impl/ProofEncryptionUnmarshaller.java
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* Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
*
* @param messageContext the current message context
*
* @return true if the encoder provides end-to-end message confidentiality, false if not
*
* @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its ability to provide message confidentiality.
*/

/**
* Gets whether the transport represents a confidential connection (e.g. an SSL connection).
*
* @return whether the transport represents a confidential connection
*/

/**
* Sets whether the transport represents a confidential connection.
*
* @param isConfidential whether the transport represents a confidential connection
*/

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1.125 libconfig 1.4.9 5.el7

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

When a `work that uses the Library` uses material from a header file
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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 Library
will still fall under Section 6.)

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

As an exception to the Sections above, you may also combine or link a
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@enumerate a

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

@sp 1
@item
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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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@end enumerate

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@sp 1
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@end enumerate

@sp 1
@item
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1.127 json-path 2.0.0

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1.129 cxf-rt-rs-security-xml 3.4.0

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1.135 axis2-mtompolicy 1.7.9

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root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

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exercise the right to control the distribution of derivative or
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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that program using a modified version of the Library.

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1.jar/io/netty/handler/stream/ChunkedNioStream.java
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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-jar/io/netty/handler/ssl/ssl/SslCloseCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-jar/io/netty/handler/ssl/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-jar/io/netty/handler/ssl/ssl/SslCompletionEvent.java

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* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
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  jar/io/netty/handler/ssl/ClientAuth.java
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  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/ws_local/PERMITS_SQL/1073009222_1595250172.36/0/netty-handler-4-1-33-final-sources-1-
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1.141 pyudev 0.15

1.141.1 Available under license:

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Version 2.1, February 1999

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That's all there is to it!

1.142 bash 4.2.46 31.el7

1.142.1 Available under license:

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

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

John DuBois <spcecdt@armory.com>
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
the FSF.

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

Chet Ramey

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

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

-- End of excerpt from Chet Ramey

>Hi. I snagged some of your bash functions from your home directory on
Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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-------

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#
#**********************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
    execsql {CREATE TABLE tbl1(t1 text)}
    foreach word [this program is free software] {
        execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
    execsql {
        CREATE TABLE t2(a);
        INSERT INTO t2 VALUES(1);
        INSERT INTO t2 VALUES(NULL);
        INSERT INTO t2 VALUES(345);
        INSERT INTO t2 VALUES(NULL);
        INSERT INTO t2 VALUES(67890);
        SELECT * FROM t2;
    }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
do_test func-1.1 {
  set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}

do_test func-1.2 {
  set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}

do_test func-1.3 {
  execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
          ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}

do_test func-1.4 {
  execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#

do_test func-2.0 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
  execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
  execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
  execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
  execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
  execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
  execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,1,20)}
} {this software free program is}
do_test func-2.9 {
  execsql {SELECT substr(a,1,1) FROM t2}
do_test func-2.10 {
    execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"\u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
    do_test func-3.0 {
        execsql [DELETE FROM tbl1]
        foreach word "contains UTF-8 characters hi\u1234ho" {
            execsql "INSERT INTO tbl1 VALUES('Sword')"
        }
        execsql {SELECT t1 FROM tbl1 ORDER BY t1}
    } "UTF-8 characters contains hi\u1234ho"
    do_test func-3.1 {
        execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
    } {5 10 8 5}
    do_test func-3.2 {
        execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
    } {UT ch co hi}
    do_test func-3.3 {
        execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
    } "UTF cha con hi\u1234"
    do_test func-3.4 {
        execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
    } "TF ha on \u1234"
    do_test func-3.5 {
        execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
    } "TF- har ont \u1234h"
    do_test func-3.6 {
        execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
    } "F- ar nt \u1234h"
    do_test func-3.7 {
        execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
    } "-8 ra ta ho"
    do_test func-3.8 {
        execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
    } "8 s s o"
    do_test func-3.9 {
        execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
    } "F- er in \u1234h"
    do_test func-3.10 {
        execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
    } "TF- ter ain \u1234h"
do_test func-3.99 {
  execsql [DELETE FROM tbl1]
  foreach word [this program is free software] {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql [SELECT t1 FROM tbl1]
} [this program is free software]

} ;# End ሴ!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
  do_test func-4.1 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql [SELECT abs(a,b) FROM t1]
    } {1 {wrong number of arguments to function abs()}}
  }
ifcapable floatingpoint {
  do_test func-4.1 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql [SELECT abs(a,b) FROM t1]
    } {1 {wrong number of arguments to function abs()}}
  }
  do_test func-4.2 {
    catchsql [SELECT abs() FROM t1]
    } {1 {wrong number of arguments to function abs()}}
  }
ifcapable floatingpoint {
  do_test func-4.3 {
    catchsql [SELECT abs(b) FROM t1 ORDER BY a]
    } {0 {2 1.2345678901234 2}}
  do_test func-4.4 {
    catchsql [SELECT abs(c) FROM t1 ORDER BY a]
    } {0 {3 12345.6789 5}}
  }
ifcapable !floatingpoint {
  if {[working_64bit_int]} {
    do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 [2 12345678901234 2]}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 [3 1234567890 5]}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2}
} {1 {345} 67890}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}

ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1}
} {1 [wrong number of arguments to function round()]}
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
} {0 [-2.0 1.23 2.0]}
do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 [2.0 1.0 -2.0]}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 [3.0 -12346.0 -5.0]}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 [3.0 -12345.68 -5.0]}
do_test func-4.10 {
catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 [x3.0y x-12345.68y x-5.0y]}
do_test func-4.11 {
catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 [wrong number of arguments to function round()]
do_test func-4.12 {
execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
    catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b} 
} {0 {2.0 1.23 2.0}}

# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit 
# long doubles, but not on GCC builds with 80-bit 
# long doubles.
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
    set x2 [expr 40223.0 + $i]
    do_test func-4.17.$i {
        execsql {SELECT round($x1,1)} $x2
    }
}
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.05 + $i]
    set x2 [expr 40222.10 + $i]
    do_test func-4.18.$i {
        execsql {SELECT round($x1,1)} $x2
    }
}
do_test func-4.20 {
    execsql {SELECT round(40223.49999999999)} {40223.0}
} {40224.0}
do_test func-4.21 {
    execsql {SELECT round(40224.49999999999)} {40224.0}
} {40225.0}
do_test func-4.22 {
    execsql {SELECT round(40225.49999999999)} {40225.0}
} {40226.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.49999999999,$i)} {40223.5}
    }
    do_test func-4.24.$i {
        execsql {SELECT round(40224.49999999999,$i)} {40224.5}
    }
    do_test func-4.25.$i {
        execsql {SELECT round(40225.49999999999,$i)} {40225.5}
    }
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.49999999999,$i)} {40223.49999999999}
    }
    do_test func-4.27.$i {
        execsql {SELECT round(40224.49999999999,$i)} {40224.49999999999}
    }
}
do_test func-4.28.i
  execsql {SELECT round(40225.4999999999,$i);}
} {40225.4999999999}
}
do_test func-4.29 {
  execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
  execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
  execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
  execsql {SELECT round(1234567890123.5);}
} {1234567890124.0}
do_test func-4.33 {
  execsql {SELECT round(12345678901234.5);}
} {12345678901235.0}
do_test func-4.34 {
  execsql {SELECT round(1234567890123.35,1);}
} {1234567890123.4}
do_test func-4.35 {
  execsql {SELECT round(1234567890123.445,2);}
} {1234567890123.45}
do_test func-4.36 {
  execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test func-4.37 {
  execsql {SELECT round(9999999999999.55,1);}
} {9999999999999.6}
do_test func-4.38 {
  execsql {SELECT round(9999999999999.556,2);}
} {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
if capable !icu {
do_test func-5.4 {
catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
execsql {SELECT coalesce(nullif(1,'nil'))
} {nil}
do_test func-6.4 {
execsql {SELECT coalesce(nullif(1,2),'nil')
} {1}
do_test func-6.5 {
execsql {SELECT coalesce(nullif(1,NULL),'nil')
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
ifcapable explain {
execsql {EXPLAIN SELECT sum(a) FROM t2;}
}
execsql {
SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
}
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
ifcapable explain {

execsql {EXPLAIN SELECT sum(a) FROM t2;}
}
execsql {
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
}
} {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
    execsql {
        SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
    }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable tempdb {
    do_test func-8.3 {
        execsql {
            CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
            SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
        }
    } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} else {
do_test func-8.3 {
    execsql {
        CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
        SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
    }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
}
do_test func-8.4 {
    execsql {
        SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
    }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable compound {
do_test func-8.5 {
    execsql {
        SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                        UNION ALL SELECT -9223372036854775807)
    }
} {0}
do_test func-8.6 {
    execsql {
        SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
                        UNION ALL SELECT -9223372036854775807)
    }
} {integer}
do_test func-8.7 {
    execsql {

SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
UNION ALL SELECT -9223372036854775807) as res

} {real
ifcapable floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
UNION ALL SELECT -9223372036850000000)
    }
  } {1
  }
}
ifcapable !floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
UNION ALL SELECT -9223372036850000000)
    }
  } {1
  }
}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
  } {1
}
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
  } {integer
}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
  } {1
}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
  } {blob
}
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)),
    length(randomblob(2000))
  }
  } {parameter
}
# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().

if capable bloblit {
  do_test func-9.10 {
    execsql {SELECT hex(x'00112233445566778899aAbBeCdDeEfF'))}
    {00112233445566778899AABBCCDDEEFF}
  }
  set encoding [db one {PRAGMA encoding}]
  if {$encoding=="UTF-16le"} {
    do_test func-9.11-utf16le {
      execsql {SELECT hex(replace('abcdefg','ef','12'))}
      {6100620063006400310032006700}
      do_test func-9.12-utf16le {
        execsql {SELECT hex(replace('abcdefg','\','12'))}
        {6100620063006400650066006700}
      }
    }
    elseif {$encoding=="UTF-8"} {
      do_test func-9.11-utf8 {
        execsql {SELECT hex(replace('abcdefg','ef','12'))}
        {61626364313267}
        do_test func-9.12-utf8 {
          execsql {SELECT hex(replace('abcdefg','\','12'))}
          {61626364656667}
          do_test func-9.13-utf8 {
            execsql {SELECT hex(replace('abcdefg','a','aaa'))}
            {6161616161616161626364656667}
          }
        }
      }
    }
  } elseif {
    do_test func-10.1 {
      catchsql {
        SELECT testfunc(NULL,NULL);
      }
      {1 {first argument should be one of: int int64 string double null value}}
      do_test func-10.2 {
    }
    else {
      do_test func-10.2 {
        catchsql {
          SELECT testfunc(NULL,NULL);
        }
        {1 {first argument should be one of: int int64 string double null value}}
      }
    }
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'int', 1234
    );
}
} {1234}
do_test func-10.3 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL
    );
}
} {{}}

ifcapable floatingpoint {
    do_test func-10.4 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'double', 1.234
    );
}
} {1.234}
do_test func-10.5 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'int', 1234,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'double', 1.234,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'int', 1234,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
        'string', NULL,
        'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    );
}
} {1.234}
}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
execsql {
    SELECT sqlite_version(*);
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]=="UTF-8"} {
    do_test func-12.1-utf8 {
        execsql {
            SELECT test_destructor('hello world'), test_destructor_count();
        } {{hello world} 1}
    } else {
        ifcapable {utf16} {
            do_test func-12.1-utf16 {
                execsql {
                    SELECT test_destructor16('hello world'), test_destructor_count();
                } {{hello world} 1}
            }
        }
    } do_test func-12.2 {
        execsql {
            SELECT test_destructor_count();
        } {0}
    } do_test func-12.3 {
        execsql {
            SELECT test_destructor('hello') || ' world'
        } {{hello world}}
    } do_test func-12.4 {
        execsql {
            SELECT test_destructor_count();
        } {0}
    } do_test func-12.5 {
        execsql {
            CREATE TABLE t4(x);
            INSERT INTO t4 VALUES(test_destructor('hello'));
INSERT INTO t4 VALUES(test_destructor('world'));
SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
} {hello world}
do_test func-12.6 {
execsql {
    SELECT test_destructor_count();
}
} {0}
do_test func-12.7 {
execsql {
    DROP TABLE t4;
}
} {}

do_test func-13.1 {
execsql {
    SELECT test_auxdata('hello world');
}
} {0}
do_test func-13.2 {
execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
}
} {}
do_test func-13.3 {
execsql {
    SELECT test_auxdata('hello world') FROM t4;
}
} {0 1}
do_test func-13.4 {
execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
}
} {{0 0} {1 1}}
do_test func-13.5 {
execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
}
} {{0 0} {1 0}}
do_test func-13.6 {

execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
}
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
    set DB [sqlite3_connection_pointer db]
    set sql "SELECT test_auxdata( ?, a ) FROM t4;"
    set STMT [sqlite3_prepare $DB $sql -1 TAIL]
    sqlite3_bind_text $STMT 1 hello\000 -1
    set res [list]
    while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
        lappend res [sqlite3_column_text $STMT 0]
    }
    lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
    catch {
        db function [string repeat X 254] {return "hello"}
    }
} {0}
do_test func-14.2 {
    catch {
        db function [string repeat X 256] {return "hello"}
    }
} {1}

do_test func-15.1 {
    catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
    catchsql {select test_error('this is the error message')} 
} {1 {this is the error message}}
do_test func-15.3 {
    catchsql {select test_error('this is the error message',12)} 
} {1 {this is the error message}}
do_test func-15.4 {
    db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
    execsql {
        CREATE TABLE tbl2(a, b);
    }
}
set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
sqlite3_bind_blob $::STMT 1 abc 3
sqlite3_step $::STMT
sqlite3_finalize $::STMT
execsql {
    SELECT quote(a), quote(b) FROM tbl2;
}
} {X'616263' NULL}

# Correctly handle function error messages that include %. Ticket #1354
#
do_test func-17.1 {
    proc testfunc1 args {error "Error %d with %s percents %p"}
db function testfunc1 ::testfunc1
    catchsql {
        SELECT testfunc1(1,2,3);
    }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
    execsql {
        CREATE TABLE t5(x);
        INSERT INTO t5 VALUES(1);
        INSERT INTO t5 VALUES(-99);
        INSERT INTO t5 VALUES(10000);
        SELECT sum(x) FROM t5;
    }
} {9902}
if capable floatingpoint {
do_test func-18.2 {
    execsql {
        INSERT INTO t5 VALUES(0.0);
        SELECT sum(x) FROM t5;
    }
} {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
    execsql {
        DELETE FROM t5;
        SELECT sum(x), total(x) FROM t5;
    }
}
do_test func-18.4 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
}

do_test func-18.5 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
}

do_test func-18.6 {
  execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
  }
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.

#
do_test func-18.10 {
  execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
  }
} 0

do_test func-18.11 {
  execsql {
    SELECT typeof(sum(x)) FROM t6
  }
} integer

ifcapable floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2.0+1) from t6;
    }
} {1 {integer overflow}}
do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
  }
}
ifcapable !floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2+1) from t6;
    } 1 {integer overflow}
  }
  do_test func-18.13 {
    execsql {
      SELECT total(x) - ((1<<62)*2+1) FROM t6
    } 0.0
  }
  if [[working_64bit_int]] {
    do_test func-18.14 {
      execsql {
        SELECT sum(-9223372036854775805);
      } -9223372036854775805
    }
    ifcapable compound&&subquery {
      do_test func-18.15 {
        catchsql {
          SELECT sum(x) FROM
          (SELECT 9223372036854775807 AS x UNION ALL
           SELECT 10 AS x);
        } 1 {integer overflow}
      }
      if [[working_64bit_int]] {
        do_test func-18.16 {
          catchsql {
            SELECT sum(x) FROM
            (SELECT 9223372036854775807 AS x UNION ALL
             SELECT -10 AS x);
          } 0 9223372036854775797
        }
        catchsql {
          SELECT sum(x) FROM
          (SELECT 9223372036854775807 AS x UNION ALL
           SELECT 10 AS x);
        } 0 -9223372036854775797
      }
      do_test func-18.17 {
        catchsql {
          SELECT sum(x) FROM
          (SELECT 9223372036854775807 AS x UNION ALL
           SELECT -10 AS x);
        } 0 -9223372036854775797
      }
      do_test func-18.18 {
        }
      do_test func-18.18 {
        }
    }
  }
}
catchsql {
  SELECT sum(x) FROM
  (SELECT -9223372036854775807 AS x UNION ALL
    SELECT -10 AS x);
}
} {1 {integer overflow}}
do_test func-18.19 {
  catchsql {
    SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
  }
} {0 -1}
do_test func-18.20 {
  catchsql {
    SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
  }
} {0 1}
do_test func-18.21 {
  catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
  }
} {0 -1}
do_test func-18.22 {
  catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
  }
} {0 1}
}

;# if capable compound&&subquery

# Integer overflow on abs()
#
if {[[working_64bit_int]]} {
  do_test func-18.31 {
    catchsql {
      SELECT abs(-9223372036854775807);
    }
} {0 9223372036854775807}
  do_test func-18.32 {
    catchsql {
      SELECT abs(-9223372036854775807-1);
    }
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
  execsql {
SELECT match(a,b) FROM t1 WHERE 0;
}
}
do_test func-19.2 {
catchsql {
    SELECT 'abc' MATCH 'xyz';
}
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
}
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
catchsql {
    SELECT match(1,2,3);
}
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if ![catch {db eval {SELECT soundex('hello')}}] {
set i 0
foreach {name sdx} {
euler       E460
EULER       E460
Euler       E460
eellery     E460
gauss       G200
ghosh       G200
hilbert     H416
Heilbronn   H416
knuth       K530
kant        K530
Lloyd       L300
LADD        L300
Lukasiewicz L222
Lissajous   L222
A           A000
12345       ?000
}
incr i
do_test func-20.$i {
execsql {SELECT soundex($name)}
} $sdx
}
# Tests of the REPLACE function.
#
do_test func-21.1 {
catchsql {
    SELECT replace(1,2);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
catchsql {
    SELECT replace(1,2,3,4);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
execsql {
    SELECT typeof(replace("This is the main test string", NULL, "ALT"));
}
} {null}
do_test func-21.4 {
execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
}
} {null}
do_test func-21.5 {
execsql {
    SELECT typeof(replace("This is the main test string", "main", NULL));
}
} {null}
do_test func-21.6 {
execsql {
    SELECT replace("This is the main test string", "main", "ALT");
}
} {{This is the ALT test string}}
do_test func-21.7 {
execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
}
} {{This is the larger-main test string}}
do_test func-21.8 {
execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
}
} {01234567890123456789012345678901234567890123456789012345678901234567890123456789}

ifcapable tclvar {
do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str "[string repeat A 29998]CC[string repeat A 35537]"
set ::rep [string repeat B 65536]
execsSql {
    SELECT LENGTH(REPLACE($::str, 'C', $::rep));
} [expr 29998 + 2*65536 + 35537]
}

# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
catchSql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
catchSql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
catchSql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
execsSql {SELECT trim('  hi  ')}
} {hi}
do_test func-22.5 {
execsSql {SELECT ltrim('  hi  ')}
} {{hi  }}
do_test func-22.6 {
execsSql {SELECT rtrim('  hi  ')}
} {{  hi}}
do_test func-22.7 {
execsSql {SELECT trim('  hi  ','xyz')}  
} {{  hi  'xyz'}}
do_test func-22.8 {
execsSql {SELECT ltrim('  hi  ','xyz')}  
} {{  hi  'xyz'}}
do_test func-22.9 {
execsSql {SELECT rtrim('  hi  ','xyz')}  
} {{  hi  'xyz'}}
do_test func-22.10 {
execsSql {SELECT trim('xyxzy  hi  zzzy','xyz')}  
} {{  hi  'xyz'}}
do_test func-22.11 {
execsSql {SELECT ltrim('xyxzy  hi  zzzy','xyz')}  
} {{  hi  'xyz'}}
do_test func-22.12 {
execsSql {SELECT rtrim('xyxzy  hi  zzzy','xyz')}  
} {{xyxzy  hi  'xyz'}}
do_test func-22.13 {
execsSql {SELECT trim('  hi  ','')}  
} {{  hi  'xyz'}}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
    do_test func-22.14 {
        execsql {SELECT hex(trim(x'c280e1bfbf48fbbf6869',x'6162e1bfbc280'))}
    } {F48FBFBF6869}
    do_test func-22.15 {
        execsql {SELECT hex(trim(x'6869c280e1bfbf48fbbf61',
            x'6162e1bfbc280f48fbbf'))}
    } {6869}
    do_test func-22.16 {
        execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1')));
    } {CEB2CEB3}
    do_test func-22.20 {
        execsql {SELECT typeof(trim(NULL));}
    } {null}
    do_test func-22.21 {
        execsql {SELECT typeof(trim(NULL,'xyz'));}
    } {null}
    do_test func-22.22 {
        execsql {SELECT typeof(trim('hello',NULL));}
    } {null}
    # This is to test the deprecated sqlite3_aggregate_count() API.
    #
    if capable deprecated {
        do_test func-23.1 {
            sqlite3_create_aggregate db
            execsql {
                SELECT legacy_count() FROM t6;
            }
        } {3}
    }
    # The group_concat() function.
    #
    do_test func-24.1 {
        execsql {
            SELECT group_concat(t1) FROM tbl1
        } {this,program,is,free,software}
    } do_test func-24.2 {
        execsql {
            SELECT group_concat(t1,' ') FROM tbl1
        } {{this program is free software}}
    } do_test func-24.3 {
        execsql {
            SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
        } {{this program is free software}}
    }
do_test func-24.4 {
execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
}
}
do_test func-24.5 {
execsql {
    SELECT group_concat(t1,NULL) FROM tbl1
}
}
do_test func-24.6 {
execsql {
    SELECT 'BEGIN-''||group_concat(t1) FROM tbl1
}
}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<\[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1\]} {incr i} {
    append midargs ,/$i/
    append midres /$i/
    set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}"
    set sql "SELECT md5sum(t1${midargs}) FROM tbl1"
    do_test func-24.7.$i {
        db eval $::sql
    } $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
}
}
do_test func-24.9 {
execsql {

SELECT group_concat(CASE WHEN t1='software' THEN '' ELSE t1 END) FROM tbl1
}
} {,...,software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
}
} {program,is,free,software}
do_test func-24.11 {
execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
}
} {software}
do_test func-24.12 {
execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ''
        WHEN 'program' THEN null ELSE t1 END) FROM tbl1
}
} {,is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
    abuse_create_function db
} {}

# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
    set a {}
    for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
        lappend a $i
    }
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}

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do_test func-26.6 {
  catchsql "
  SELECT 
  NULL
  "
} {1 {no such function:
  NULL
}}

do_test func-27.1 {
  catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
  catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
  catchsql {SELECT coalesce(1,2)}
} {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
  db eval {
    CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
  }
  catchsql {
    INSERT INTO t28(x) VALUES(1);
  }
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
  db eval {
    CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
    INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
    INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
    INSERT INTO t29 VALUES(5, "hello", 7);
  }
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
do_test func-29.2 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
} {1}

do_test func-29.3 {
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
    
    if {[permutation] != "mmap"} {
        do_test func-29.4 {
            set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
            if {$x>100} {set x many}
            set x
        } {many}
    }

do_test func-29.5 {
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT sum(length(x)) FROM t29}
} {1000009}

do_test func-29.6 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
} {1}

    do_execsql_test func-30.1 {SELECT unicode('\$');} 36
    do_execsql_test func-30.2 {SUBST {SELECT unicode('\u00A2');}} 162
    do_execsql_test func-30.3 {SUBST {SELECT unicode('\u20AC');}} 8364
    do_execsql_test func-30.4 {SELECT char(36,162,8364);} {SUBST {$u00A2\u20AC}}

for {set i 1} {$i<0xd800} {incr i 13} {
    do_execsql_test func-30.5.{$i} {SELECT unicode(char($i))} $i
}

for {set i 57344} {$i<0xfffd} {incr i 17} {
    if {$i==0xfeff} continue
    do_execsql_test func-30.5.{$i} {SELECT unicode(char($i))} $i
}

for {set i 65536} {$i<0x10ffff} {incr i 139} {
    do_execsql_test func-30.5.{$i} {SELECT unicode(char($i))} $i
}

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

/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

License: Public Domain

Found in path(s):
* /opt/cola/permits/1211702898_1634536223.18/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-eUSWx1J3/sqlite-spec
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and is thus free for

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

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

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

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

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

** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
****************************************************************************
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/

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

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

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

This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between ___________________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/; and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

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

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

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

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer of SQLite.
and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

<h3>1.3 Consortium Member</h3>

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

<h2>2.0 Agreement</h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>
The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.
2.1.6 Custom Testing

The SQLite Developers shall at Company’s request set up and run acceptance tests according Company’s specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

2.1.7 Priority Bug Fixes

The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

2.1.8 Code Quality

The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

2.1.9 Backwards Compatibility

The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

2.1.10 Test Coverage

The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

2.1.11 Website

The SQLite Developers shall maintain the SQLite website at http://www.sqlite.org/ in good working order and all SQLite source code shall be made freely available at such website.

2.2 Responsibilities And Obligations Of The SQLite Architect

2.2.1 Private Briefings

The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might
effect Company's products.

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.</p>

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.</p>

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.

2.3.5 Audits
Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

2.3.6 Disaster Planning
Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

2.3.7 Trademark
Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.

2.3.8 No Take-overs or Buy-outs
Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

2.3.9 New Consortium Members
New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.

2.3.10 Adequate Staff
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development.
debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.
</p>

<h4>2.3.11 Use Of Funds</h4>
<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.
</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".
</p>

<h4>2.4.2 Copyright Disclaimer</h4>
<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.
</p>

<h2>3.0 Fees</h2>

<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.
</p>

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>

<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.
</p>
4.2 Non-Use and Non-Disclosure.

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

4.2.1 Disclosure Required by Law

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

4.3 Return of Materials.

Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.
5.0 Intellectual Property

5.1 No Assignment

Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.

5.2 Availability and Public Domain Dedication

The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.

5.3 Trademark

Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for
licensing the use of the trademark.\</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>
8. Miscellaneous

8.1 Nonassignment/Binding Agreement.

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

8.2 Notices.

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

8.3 Waiver.

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy.
under this Agreement or that such party is entitled by law to enforce.</p>

<h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

<h3>8.5 Integration.</h3>

<p>This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.</p>

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>

<h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will
in any way be construed to constitute Hwaci or any of
its employees as an agent, employee or representative
of Company.</p>

<h2>9.0 Signatures</h2>

<p>The parties have executed this Agreement below to
indicate their acceptance of its terms.</p>

<table width="100%" border="0">
<tr><td valign="top">
HWACI<br>
By:<hr>
Print Name:<hr>
Title:<hr>
</td></tr></table>

<tr><td valign="top">
COMPANY<br>
By:<hr>
Print Name:<hr>
Title:<hr>
</td></tr></table>

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

# 2006 September 14
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS3 module.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.

# do_test fts3ac-1.1 {
    do_eval { 
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline. 

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

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

        Please see example below:

        Parent’s Settings:
        Minimum: 5000
        Increment: 1000

        Volume on Autohedge transactionVolume Hedged
        1 - 24990
        2500 - 54995000
        5500 - 64996000');
        INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com,' 'Leaving Early', 'FYI: If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.');
        INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',

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

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

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

Gentlemen,

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

JD);

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

The producer lumber pricing sheet.

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

Greater Houston Partnership', Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey);

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

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

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

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

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

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

Wendy');

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

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

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

Thanks,

Fran Fagan  
Sr. HR Rep  
713.853.5219

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

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

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

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,'; 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

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

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

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

Jim
Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

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

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

- OUTAGE.dbf
- 111201R.xls
- 111201.xls

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

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

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

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

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

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

Let me know.?? ii

- About St Pauls.url

Here is a goody for you);

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle. ');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', 'Here is a goody for you');

Here is a goody for you);
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com', 'TRV Notification: (West VaR - 11/07/2001)', The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; LS HPL LSK IC 30.000 / Enron ');

LS HPL LSK IC 30.000 / Enron

Is it safe to assume that practice is cancelled for tonight??
Susan Pereira);
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works.

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

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

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

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

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

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


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

Mat

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

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

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
'));

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

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

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

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

Thanks for your help on this.

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

WK
);

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

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

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

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

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

I saw it. Very interesting.

Vince

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

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

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

Thanks for your understanding in this matter.

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

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

Thanks,

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

Dear SmartReminders Member,

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

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

Ben');

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

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

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax: (415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch

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

Nailia

----------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 -----------
Attended are our comments and suggested changes. Please call to review.

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

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

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

Peggy

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

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

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.
agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - " *Koch, Kent" <kkoch@nisource.com>,, " - " *Millar, Debra" <dmillar@nisource.com>,, " - " *Burke, Lynn" <lburke@nisource.com>
cc: " - " *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum


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

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

Aaron Goddard

- 2001Summer.doc
'});
To: Richey, Cooper  
Subject: Contact Info

Cooper,

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

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

Take Care,

Karim.

');

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

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

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

See attached memo for more details!!
is operational.

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

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

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

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

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

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

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

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

If you need to know their power desk to map their ID to their gas books, those desks are as follows:
EPMI-LT-SPP: Mike Carson  
EPMI-LT-SERC: Jeff King

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

Thanks for your help!
Casey

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

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

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

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

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

PHILIP LOVE  
210-276-5800, ext 230  
phillip.love@enron.com

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

Marie

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

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

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

Thank you,  
Karolyn Criado  
3-9441

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

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

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

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

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.
Stacy');
INSERT INTO email(from,[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/');
INSERT INTO email(from,[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

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

Phillip');
INSERT INTO email(from,[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

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

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

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

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email(from,[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', ')

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

Paul,

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

Call if you have any more questions.

Rebecca

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

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

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

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

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

Thanks,
Stephanie

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

<< File: Netco Trader Matrix.xls >>

Chris
x31666

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

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

Detailed Description:⁄
Hello Mark,

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

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

Thanks!

Best regards

Diana Seifert
EOL PCG’;

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

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

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

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

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

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com
Please refer to the Worldwide Customer Support card for a complete technical support contact list.

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

bp corp
Albert LaMore
281-366-4962

running the reports now

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

give me a contact over there too
BP

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

Coral
Jeff Whitnah
713-767-5374
Relaint
Steve McGinn
713-207-4000

Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

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

Variance found in table tblLoads.

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

');

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

John');

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

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

Richard McDougall
Solaris 8
Thursday, June 7, 2001

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

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

Click below for more details.

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

COMMIT;
```
do_test fts3ac-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {6 17 25 38 40 42 73 74}

do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}

do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}

do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
  }
} {}

do_test fts3ac-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}

do_test fts3ac-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}

do_test fts3ac-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 5 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
  execsql {
      SELECT rowid, offsets(email) FROM email
       WHERE email MATCH 'subject:gas reminder'
  }  } {20 [2 0 42 3 2 1 54 8 3 1 54 8]}
do_test fts3ac-2.3 {
  execsql {
      SELECT rowid, offsets(email) FROM email
       WHERE email MATCH 'body:gas reminder'
  }  } {20 [2 1 54 8 3 0 42 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
do_test fts3ac-2.4 {
  execsql {
      SELECT rowid, offsets(email) FROM email
       WHERE subject MATCH 'gas reminder'
  }  } {20 [2 0 42 3 2 1 54 8]}
do_test fts3ac-2.5 {
  execsql {
      SELECT rowid, offsets(email) FROM email
       WHERE body MATCH 'gas reminder'
  }  } {20 [3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
  execsql {
      SELECT rowid, offsets(email) FROM email
       WHERE body MATCH 'child product' AND +rowid=32
  }  } {32 [3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7]}
do_test fts3ac-3.2 {
  execsql {
      SELECT rowid, offsets(email) FROM email
       WHERE body MATCH '"child product"'
  }  } {32 [3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7]}

# Snippet generator tests
#
do_test fts3ac-4.1 {
  execsql {
      SELECT snippet(email) FROM email
       WHERE email MATCH 'subject:gas reminder'
  }  }
do_test fts3ac-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}

do_test fts3ac-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
}

do_test fts3ac-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
}

do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
}

do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
}

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

do_test fts3ac-4.8 {

execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com<b>...</b>3;  No <b>ancillary</b> schedules awarded<b>...</b>detected in <b>Load</b> schedule.

    LOG<b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'questar enron OR com'
    }
} {{matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

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

#-------------------------------------------------------------
# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
    execsql {
        CREATE VIRTUAL TABLE ft USING fts3(one, two);
        INSERT INTO ft VALUES('', 'foo');
        INSERT INTO ft VALUES('foo', 'foo');
        SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
    }
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
    execsql {
        DELETE FROM ft WHERE one = 'foo';
        SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
    }
} {{1 0 0 3}}

finish_test
application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the

%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %name
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %version
Release: %release
Source: %name-%version.tar.gz
Group: System/Libraries
URL: http://www.sqlite.org/
License: Public Domain
BuildRoot: %{_tmppath}/%name-%version-root

description
SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine.
Programs that link with the SQLite library can have SQL database access without running a separate RDBMS process. The distribution comes with a standalone command-line access program (sqlite) that can be used to administer an SQLite database and which serves as an example of how to use the SQLite library.

%package -n %name-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %name = %version-%release
The sqlite-devel package contains the header files and libraries needed to develop programs that use the SQLite database library.

%description -n %{name}-devel

The sqlite-devel package contains the header files and libraries needed to develop programs that use the SQLite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="--optflags -DNDEBUG=1" CXXFLAGS="--optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}

make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix} 
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite3.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

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

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions
Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

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

The source code for SQLite is in the public domain. No claim of copyright

SQLite is open source, and is available in the public domain

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
#$Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
    finish_test
    return
}

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

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

Please see example below:

Parent's Settings:
Minimum: 5000
Increment: 1000

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

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

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

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

Gentlemen,

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

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com,
scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com',
'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001',
'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

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

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

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.
Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

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

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

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

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

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

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

Thanks.

Dan

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

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

Fran Fagan
Sr. HR Rep
713.853.5219

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

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

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

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com;', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.' );
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

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

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

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

Jim

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

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

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

OUTAGE.dbf
- 111201R.xls
- 111201.xls

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

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

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

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

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

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

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

Let me know. ??

- About St Pauls.

');

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,' ,'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');

INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=WEST&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.);

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

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

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

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

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

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

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

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

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

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

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

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

Thanks

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

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

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

Subject: New EAST books

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

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

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

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

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

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

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

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

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

I saw it. Very interesting.

Vince

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

Cheers and have a nice weekend,
INSERT INTO email([from],[to],subject,body) VALUES('matthew:lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');

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

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

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

Thanks,

Eric');

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

[IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

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

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

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

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

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

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854

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

Marcie


Who is General Brinks?

Fletch);

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

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

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

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

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

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

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

Peggy

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

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

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

');

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

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

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

Home# 234-0249
e-mail: kpunja@hotmail.com

Take Care,

Karim.

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

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

  bjm30@earthlink.net

I hope all is well.

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

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com;', '2001 Enron Law Conference (Distribution List 2)', '    Enron Law Conference
San Antonio, Texas    May 2-4, 2001    Westin Riverwalk

    See attached memo for more details!!

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

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

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

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG   3-9573

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

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

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

)'),

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

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

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

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

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

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

Thanks for your help!
CASEY');

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

ds

');

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

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

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

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

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

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

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

INSERT INTO email(from,[to],subject,body) VALUES('marie.heard@enron.com','ehamilton@fna.com','ISDA Master Agreement','Erin:

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

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

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

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

Thank you,  
Karolyn Criado  
3-9441

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

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

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

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

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

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

w ww.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', '', 'Jacques,
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248
($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

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

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

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

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

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

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

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from], [to], subject, body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', '-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

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

Rebecca

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

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

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

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

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

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

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

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

Thanks

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

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490);
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

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

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

Chairperson:Outlook Migration Team

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

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

Best regards

Diana Seifert
EOL PCG

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

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

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

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

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

Canada:
1905 305-6530
support@palm.com

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

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

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'Technical Support', 'Outside the U.S., please refer to the list below:

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

Canada:
1905 305-6530
support@palm.com

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

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

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
'RE': 'duke contact?'

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

bp corp
Albert LaMore 281-366-4962

running the reports now

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

give me a contact over there too
BP

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

Coral
Jeff Whitnah 713-767-5374
Relaint
Steve McGinn 713-207-4000

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

LOG MESSAGES:

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

---- Load Schedule ----
$$$ Variance found in table tblLoads.
  Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
  TRANS_TYPE: FINAL
  LOAD_ID: PGE4
  MKT_TYPE: 2
'John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ", 'Lite Bytz RSVP', '
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

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

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

Click below for more details.

http://home.enron.com:84/messaging/litebyztoolzprint.jpg');
    COMMIT;
} {}
do_test fts1c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
}

do_test fts1c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
}

do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan"
  }
}

do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
}

do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
}

# Open Source Used In Cisco Emergency Responder 14Su1 MFG 1714
do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
# do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "'child product'
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
# do_test fts1c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}{{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}
place.? What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

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

{EOL-Accenture Deal Sheet intent
Review Enron asset base for potential/reuse/licensing
Contract negotiations
}
do_test fts1c-4.4 {
excsql {
    SELECT snippet(email,"<<<','>>>",','") FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
}

{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations
}
do_test fts1c-4.5 {
excsql {
    SELECT snippet(email,"<<<','>>>",','") FROM email
    WHERE email MATCH 'first things'
}
}

{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the
}
do_test fts1c-4.6 {
excsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
}

{<b>chris<mailto:chris.germany@enron.com>...<b> Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...<b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...<b>}
do_test fts1c-4.7 {
excsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
}
}

{Erin:

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

LOG MESSAGES:

PARSING <b>...</b> }}

# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b>/Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}
do_test fts1c-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

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

finish_test

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

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

Found in path(s):
No license file was found, but licenses were detected in source scan.
The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

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

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

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
        BEGIN TRANSACTION;
    }
The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

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

Please see example below:

Parent’s Settings:
Minimum: 5000  
Increment: 1000

<table>
<thead>
<tr>
<th>Volume on Autohedge transaction</th>
<th>Volume Hedged</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24990</td>
</tr>
<tr>
<td>2500 - 54995000</td>
<td>5000</td>
</tr>
<tr>
<td>5500 - 64996000</td>
<td></td>
</tr>
</tbody>
</table>

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

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

Gentlemen,

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

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rt/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

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

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

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy, Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,
lachandra.fenceroy@enron.com
713.853.3884
-----Original Message-----
From: Bisbee, Joanne  
Sent:Wednesday, September 26, 2001 7:50 AM  
To:Fenceroy, LaChandra  
Subject:FW: Bus Applications Meeting Follow Up

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

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

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

Wendy

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

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

Thanks,

Fran Fagan  
Sr. HR Rep  
713.853.5219

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

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,'
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT):

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,'); 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

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

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

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

Jim

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

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

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

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

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ')};
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

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

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

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

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

Let me know.?? ii

- About St Pauls.url

');

Chris,
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder

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

Here is a goody for you:

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');

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

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

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

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

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');

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

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

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

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

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

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

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

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

Mat

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

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

Subject: Egyptian Festival
<http://www.egyptianfestival.com/>

- Egyptian Festival.url

');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com','sherry.dawson@enron.com','Urgent!!! --- New EAST books','This has to be done..............................

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

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

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

Subject: New EAST books

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

Thanks for your help on this.

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

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

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.
When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

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

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

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

Dave');

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

I saw it. Very interesting.

Vince

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

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

I saw it. Very interesting.

Vince

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
do. 713-646-8272
cell 713-539-4760

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

Thanks,

Eric

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

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

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

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

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

INSERT INTO email([from],[to],[subject],[body]) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.
Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----
"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM   To: ""smara@enron.com"
<smara@enron.com> cc:   Subject: CAISO Emergency Motion

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

Marcie


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

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

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

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

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

Nailia

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

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

On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters of intent
  Review Enron asset base for potential reuse/ licensing
  Contract negotiations
Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

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

Peggy

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

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

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

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


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.
If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,’ ‘Split Rock Energy LLC’, ‘We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.’);
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,’ ‘Oral Argument Request’, ’ - Oral Argument Request.doc’);
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', ”, 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

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

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

Cooper,

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

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

Take Care,

Karim.

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

I haven”t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

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

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

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

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

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

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573
From: Bryce Baxter                           06/12/2000 07:15 PM

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

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

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

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

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

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

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

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

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

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

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

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

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

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

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

Marie

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

')

' events
Please contact me if you have any questions regarding last weeks prices.

Thank you,

Karolyn Criado
3-9441

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

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

Thanks.

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

Stacy

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

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

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:
1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
     included in the calc.

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

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

Kourtney

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

INSERT INTO email([from],[to],subject,body) VALUES('d.thomas@enron.com', 'naveed.ahmed@enron.com',
   'FW: Current Enron TCC Portfolio', '

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

Paul,

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

Call if you have any more questions.

Rebecca

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

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

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

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

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

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

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

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

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

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490);
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ", 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

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

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

Chairperson:Outlook Migration Team

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

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

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

Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'mark.whitt@enron.com', '<<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:
Status last changed by: Barry L. Tycholiz  
Expense Report Name: 121001  
Report Total: $198.98  
Amount Due Employee: $198.98  
Amount Approved: $198.98  
Amount Paid: $0.00  
Approval Status: Approved  
Payment Status: Pending

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

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

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

Canada:  
1905 305-6530  
support@palm.com

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

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

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

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?  
-----Original Message-----  
From: Quigley, Dutch  
Sent:Wednesday, October 31, 2001 10:14 AM  
To:Storey, Geoff  
Subject:RE:  

bp corpAlbert LaMore281-366-4962

running the reports now

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

give me a contact over there too  
BP

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

Jeff Whitnah 713-767-5374  
Reliant Steve McGinn 713-207-4000';

LOG MESSAGES:

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

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

');

John:

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

Richard McDougall
Solaris 8
Thursday, June 7, 2001

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

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

Click below for more details.

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

} {}
}
} {}
do_test fts2c-1.7 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
execsql {
SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts2c-1.9 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
} {6 17 24 25 38 40 42 73 74}
# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
execsql {

Open Source Used In Cisco Emergency Responder 14Su1 MFG 1743


SELECT rowid, offsets(email) FROM email
WHERE body MATCH 'gas reminder'

} {20 \{3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3\}}

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

# Snippet generator tests
#
do_test fts2c-4.1 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'subject:gas reminder'
} {{Alert Posted 10:00 AM November 20,2000: E-\<b>GAS</b>\ Request \<b>Reminder</b>}}
do_test fts2c-4.2 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'christmas candlelight'
} {{\<b>...</b> place.? What do you think about going here \<b>Christmas</b>\ eve?? They have an 11:00 a.m. service and a \<b>candlelight</b>\ service at 5:00 p.m., among others. \<b>...</b>}}
do_test fts2c-4.3 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'deal sheet potential reuse'
} {{EOL-Accenture \<b>Deal</b> \<b>Sheet</b> \<b>...</b> intent
Review Enron asset base for \<b>potential</b>\ \<b>reuse</b>/ licensing
Contract negotiations \<b>...</b>}}
do_test fts2c-4.4 {
execsql {
  SELECT snippet(email,'<<<','>>>',' ') FROM email
  WHERE email MATCH 'deal sheet potential reuse'
}

do_test fts2c-4.5 {
execsql {
  SELECT snippet(email,'<<<','>>>',' ') FROM email
  WHERE email MATCH 'first things'
}

do_test fts2c-4.6 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'chris is here'
}

do_test fts2c-4.7 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'pursuant to'
}

Erin:

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

Pete.

davis@enron.com

Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING ...

# Combinations of AND and OR operators:

#
WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

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

do_test fts2c-5.2 {
execsql {
  SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

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

finish_test

Found in path(s):

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

<html>
<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">
Copyright Release for
Contributions To SQLite
</h1>

<p>
SQLite is software that implements an embeddable SQL database engine. SQLite is available for free download from http://www.sqlite.org/. The principal author and maintainer of SQLite has disclaimed all copyright interest in his contributions to SQLite and thus released his contributions into the public domain. In order to keep the SQLite software unencumbered by copyright claims, the principal author asks others who may from time to time contribute changes and enhancements to likewise disclaim their own individual copyright interest.
</p>
Because the SQLite software found at http://www.sqlite.org/ is in the public domain, anyone is free to download the SQLite software from that website, make changes to the software, use, distribute, or sell the modified software, under either the original name or under some new name, without any need to obtain permission, pay royalties, acknowledge the original source of the software, or in any other way compensate, identify, or notify the original authors. Nobody is in any way compelled to contribute their SQLite changes and enhancements back to the SQLite website. This document concerns only changes and enhancements to SQLite that are intentionally and deliberately contributed back to the SQLite website.

For the purposes of this document, "SQLite software" shall mean any computer source code, documentation, makefiles, test scripts, or other information that is published on the SQLite website, http://www.sqlite.org/. Precompiled binaries are excluded from the definition of "SQLite software" in this document because the process of compiling the software may introduce information from outside sources which is not properly a part of SQLite.

The header comments on the SQLite source files exhort the reader to share freely and to never take more than one gives. In the spirit of that exhortation I make the following declarations:

I dedicate to the public domain any and all copyright interest in the SQLite software that was publicly available on the SQLite website (http://www.sqlite.org/) prior to the date of the signature below and any changes or enhancements to the SQLite software that I may cause to be published on that website in the future. I make this dedication for the benefit of the public at large and to the detriment of my heirs and successors. I intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to the SQLite software under copyright law.

To the best of my knowledge and belief, the changes and enhancements that I have contributed to SQLite are either originally written by me or are derived from prior works which I have verified are also
in the public domain and are not subject to claims of copyright
by other parties.
</p></li>

<li><p>
To the best of my knowledge and belief, no individual, business, organization,
government, or other entity has any copyright interest
in the SQLite software as it existed on the
SQLite website as of the date on the signature line below.
</p></li>

<li><p>
I agree never to publish any additional information
to the SQLite website (by CVS, email, scp, FTP, or any other means) unless
that information is an original work of authorship by me or is derived from
prior published versions of SQLite.
I agree never to copy and paste code into the SQLite code base from
other sources.
I agree never to publish on the SQLite website any information that
would violate a law or breach a contract.
</p></li>

<p>
<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
Signature:
</td>
<td valign="top" align="left">
Date:
</td>
</tr>
</table>
</p>

Found in path(s):
* /opt/cola/permits/1211702898_1634536223.18/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

MMFauxFont.prc
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/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: {configuration option}
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all mutixing and puts SQLite into a mode where it can only be used
 ** by a single thread. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option.</dd>
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Multi-thread. In other words, it disables
 ** mutixing on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements]. But other mutexes
 ** are enabled so that SQLite will be safe to use in a multi-threaded
 ** environment as long as no two threads attempt to use the same
 ** [database connection] at the same time. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to set the Multi-thread [threading mode] and
 ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
 ** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
 **
 ** [[SQLITE_CONFIG_SERIALIZE]] <dt>SQLITE_CONFIG_SERIALIZE</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZE configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]]<dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^ SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]]<dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^ 
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulates memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]]<dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. ^ (When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status()]
** </ul>)^ 
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]]<dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** scratch memory. There are three arguments: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N). The sz
** argument must be a multiple of 16.
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So
** N should be set to twice the expected maximum number of threads.
** ^SQLite will never require a scratch buffer that is more than 6
** times the database page size. ^If SQLite needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.</dd>
**
** ^[[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** the database page cache with the default page cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
** to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>
**
** ^[[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at \(2^{12}\). Reasonable values for the minimum allocation size are \(2^5\) through \(2^8\).</dd>

**

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>

** <dd>^\(\)This option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The argument specifies ** alternative low-level mutex routines to be used in place ** the mutex routines built into SQLite.)^ \^SQLite makes a copy of the ** content of the [sqlite3_mutex_methods] structure before the call to ** [sqlite3_config()] returns. ^If SQLite is compiled with ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then ** the entire mutexing subsystem is omitted from the build and hence calls to ** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will ** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>

** <dd>^\(\)This option takes a single argument which is a pointer to an instance of the [sqlite3_mutex_methods] structure. The ** [sqlite3_mutex_methods] structure is filled with the currently defined mutex routines.)^ ** This option can be used to overload the default mutex allocation ** routines with a wrapper used to track mutex usage for performance ** profiling or testing, for example. ^If SQLite is compiled with ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then ** the entire mutexing subsystem is omitted from the build and hence calls to ** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will ** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>

** <dd>^\(\)This option takes two arguments that determine the default ** memory allocation for the lookaside memory allocator on each ** [database connection]. The first argument is the ** size of each lookaside buffer slot and the second is the number of ** slots allocated to each database connection.)^ \^\(\)This option sets the ** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE] ** verb to [sqlite3_db_config()] can be used to change the lookaside ** configuration on individual connections.)^ </dd>

**

** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>

** <dd>^\(\)This option takes a single argument which is a pointer to ** an [sqlite3_pcache_methods2] object. This object specifies the interface ** to a custom page cache implementation.)^ \^SQLite makes a copy of the ** object and uses it for page cache memory allocations.</dd>

**

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>

** <dd>^\(\)This option takes a single argument which is a pointer to an ** [sqlite3_pcache_methods2] object. SQLite copies of the current ** page cache implementation into that object.)^ </dd>
The SQLITE_CONFIG_LOG option is used to configure the SQLite global [error log].

The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a function with a call signature of `void(*)(void*,int,const char*)`, and a pointer to void. If the function pointer is not NULL, it is invoked by `sqlite3_log()` to process each logging event. If the function pointer is NULL, the `sqlite3_log()` interface becomes a no-op.

The void pointer that is the second argument to SQLITE_CONFIG_LOG is passed through as the first parameter to the application-defined logger function whenever that function is invoked. The second parameter to the logger function is a copy of the first parameter to the corresponding `sqlite3_log()` call and is intended to be a [result code] or an [extended result code]. The third parameter passed to the logger is log message after formatting via `sqlite3_snprintf()`.

The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface. In a multi-threaded application, the application-defined logger function must be threadsafe.

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

This option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for full table scans in the query optimizer. The default setting is determined by the SQLITE.Allow_Covering_Index.Scan compile-time option, or is "on" if that compile-time option is omitted. The ability to disable the use of covering indices for full table scans is because some incorrectly coded legacy applications might malfunction when the optimization is enabled. Providing the ability to disable the optimization allows the older, buggy application code to work without change even with newer versions of SQLite.
** These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
**
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**

** SQLite_CONFIG_SQLLOG
** <dt>SQLite_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**

** SQLite_CONFIG_MMAP_SIZE
** <dt>SQLite_CONFIG_MMAP_SIZE
** <dd>SQLite_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
*/

Found in path(s):
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application code is free to use these routines as well, if desired.

Found in path(s):
The sources are in the public domain. Rather than using fopen() to write XML or some proprietary format into an application is free to use the same database connection or the same database connection.

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The public domain and original contributions to the public domain. We make this dedication for the benefit of all those authors who have made their contributions to the public domain.

Even though SQLite is in the public domain and does not require a specific license, the contributions to the public domain.

The public domain and original contributions to the public domain. We make this dedication for the benefit of all those authors who have made their contributions to the public domain.

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

Found in path(s):
* /opt/cola/permits/1211702898_1634536223.18/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-
eUSWx1J3/sqlite-src-3071700.zip-cosi-expand-archive-lcshkMY5/sqlite-src-3071700/src/os_unix.c
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without a shared lock, other processes are free to modify the database

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<a href="copyright.html">public domain</a>. No claim of ownership is made

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%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%%BeginResource: procset Adobe_CoolType_Core 2.31 0

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SQLite is in the public domain. This document describes what that means

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<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE: </p>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>
Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian’s commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

# # #
About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp’s direction.

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Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About Mozilla

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

CONTACT INFORMATION:
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Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com

About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.
Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.<p></p>

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.<p></p>

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press@symbian.com
<p></p>

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

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
finish_test
return

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zeal zeal
zealous zealou
zeals zeal
zed zed
zenelophon zenelophon
zenith zenith
zephyrs zephyr
zir zir
zo zo
zodiac zodiac
zodiacs zodiac
zone zone
zounds zound
zwagger zwagger

# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
execsql {
DELETE FROM t1_term;
DELETE FROM t1_content;
INSERT INTO t1(word) VALUES($pfrom);
SELECT term FROM t1_term;
}
} $pto
}

finish_test

Found in path(s):
SQLite itself is in the public domain and can be used for any purpose. But TH3 is proprietary and requires a license.

<h3>Proprietary SQLite Extensions</h3>

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

Suppose the demo_data.boundary field holds some proprietary data description

# 2010 July 16
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#******************************************************************************
#
# This file implements tests to verify that the "testable statements" in
# the lang_select.html document are correct.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
ifcapable !compound {
finish_test
return
}

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

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

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

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

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

set t1_cross_t1 [list                  \
 a one   a one      a one   b two    \
 a one   c three    b two   a one    \
 b two   b two      b two   c three  \
 c three a one    c three b two    \
 c three c three                     \
]

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

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

# # EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core
#
# # 0: SELECT ...
# # 1: SELECT DISTINCT ...
# # 2: SELECT ALL ...
#
# # 0: No FROM clause
# # 1: Has FROM clause
#
# # 0: No WHERE clause
# # 1: Has WHERE clause
#
# 0: No GROUP BY clause
# 1: Has GROUP BY clause
# 2: Has GROUP BY and HAVING clauses
#
do_select_tests e_select-0.2 {
  0000.1 "SELECT 1, 2, 3 " {1 2 3}
  1000.1 "SELECT DISTINCT 1, 2, 3 " {1 2 3}
  2000.1 "SELECT ALL 1, 2, 3 " {1 2 3}

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

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

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

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

  1110.1 "SELECT DISTINCT a, b, a||b FROM t1 WHERE a!='x' " {
    a one aone b two btwo c three cthree
  }

  2110.0 "SELECT ALL a, b, a||b FROM t1 WHERE a=='x'' " {}

  0001.1 "SELECT 1, 2, 3 GROUP BY 2 " {1 2 3}
  0002.1 "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
  0002.2 "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

  1001.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 " {1 2 3}
  1002.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
  1002.2 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

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

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

0102.2 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

1101.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
1101.2 "SELECT DISTINCT count(*), max(a) FROM t1
GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}

1102.1 "SELECT DISTINCT count(*), max(a) FROM t1
GROUP BY b HAVING count(*)=2" { }

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

2102.2 "SELECT ALL count(*), max(a) FROM t1
GROUP BY b HAVING count(*)=2" { }

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

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

2011.1 "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
2012.1 "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" { }
2012.2 "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" { }

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

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

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

# EVIDENCE-OF: R-43129-35648 -- syntax diagram join-source
#
#  do_select_tests e_select-0.4 {
#  1 "SELECT t1.rowid FROM t1" {1 2 3}
#  2 "SELECT t1.rowid FROM t1,t2" {1 1 1 2 2 2 3 3 3}
#  3 "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3}
#  4 "SELECT t1.rowid FROM t1" {1 2 3}
#  5 "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 2 2 2 3 3 3}
#  6 "SELECT t1.rowid FROM t1 JOIN t2 JOIN t3"
#      {1 1 1 1 1 2 2 2 2 2 2 2 3 3 3 3 3 3}
#  7 "SELECT t1.rowid FROM t1 NATURAL JOIN t3" {1 2}
#  8 "SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3" {1 2 3}
#  9 "SELECT t1.rowid FROM t1 NATURAL LEFT JOIN t3" {1 2 3}
# 10 "SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3" {1 2}
# 11 "SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3" {1 2}
# 12 "SELECT t1.rowid FROM t1 JOIN t3" {1 1 2 2 3 3}
13 "SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3" {1 1 2 2 3 3}
14 "SELECT t1.rowid FROM t1 LEFT JOIN t3" {1 1 2 2 3 3}
15 "SELECT t1.rowid FROM t1 INNER JOIN t3" {1 1 2 2 3 3}
16 "SELECT t1.rowid FROM t1 CROSS JOIN t3" {1 1 2 2 3 3}
}

# EVIDENCE-OF: R-28308-37813 -- syntax diagram compound-operator
#
do_select_tests e_select-0.5 {
  1 "SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4" {1 2 3 3 4}
  2 "SELECT rowid FROM t1 UNION SELECT rowid+2 FROM t4" {1 2 3 4}
  3 "SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4" {3}
  4 "SELECT rowid FROM t1 EXCEPT SELECT rowid+2 FROM t4" {1 2}
}

# EVIDENCE-OF: R-06480-34950 -- syntax diagram ordering-term
#
do_select_tests e_select-0.6 {
  1 "SELECT b||a FROM t1 ORDER BY b||a" {onea threec twob}
  2 "SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase" {onea threec twob}
  3 "SELECT b||a FROM t1 ORDER BY (b||a) ASC" {onea threec twob}
  4 "SELECT b||a FROM t1 ORDER BY (b||a) DESC" {twob threec onea}
}

# EVIDENCE-OF: R-23926-36668 -- syntax diagram select-stmt
#
do_select_tests e_select-0.7 {
  1 "SELECT * FROM t1" {a one b two c three}
  2 "SELECT * FROM t1 ORDER BY b" {a one c three b two}
  3 "SELECT * FROM t1 ORDER BY b, a" {a one c three b two}
  4 "SELECT * FROM t1 LIMIT 10" {a one b two c three}
  5 "SELECT * FROM t1 LIMIT 10 OFFSET 5" {}
  6 "SELECT * FROM t1 LIMIT 10, 5" {}
  7 "SELECT * FROM t1 ORDER BY a LIMIT 10" {a one b two c three}
  8 "SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5" {}
  9 "SELECT * FROM t1 ORDER BY a,b LIMIT 10, 5" {}
 10 "SELECT * FROM t1 UNION SELECT b, a FROM t1" {a one b two c three one a three c two b}
 11 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b" {one a two b three c a one c three b two}
 12 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a" {one a two b three c a one c three b two}
 13 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10" {a one b two c three one a three c two b}
 14 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5"
{two b}
15  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5"
   {}  
16  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a LIMIT 10"
   {a one b two c three one a three c two b}
17  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10 OFFSET 5"
   {b two}
18  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a,b LIMIT 10, 5"
   {}  

# The following tests focus on FROM clause (join) processing.
#

# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple
# SELECT statement, then the input data is implicitly a single row zero
# columns wide
#

do_select_tests e_select-1.1 {
1  "SELECT 'abc'"             {abc}
2  "SELECT 'abc' WHERE NULL"  {}  
3  "SELECT NULL"              {{}}  
4  "SELECT count(*)"          {1}
5  "SELECT count(*) WHERE 0"  {0}
6  "SELECT count(*) WHERE 1"  {1}
}

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.
#
# The results of the SELECT queries suggest that they are operating on the
# contents of the table 'xx'.
#

do_execsql_test e_select-1.2.0 {
CREATE TABLE xx(x, y);
INSERT INTO xx VALUES('IiJlsIPepMuAhU', X'10B00B897A15BAA02E3F98DCE8F2');
INSERT INTO xx VALUES(NULL, -16.87);
INSERT INTO xx VALUES(-17.89, 'linguistically');
} {} 

do_select_tests e_select-1.2 {
1  "SELECT quote(x), quote(y) FROM xx" {
   'IiJlsIPepMuAhU' X'10B00B897A15BAA02E3F98DCE8F2'
   NULL         -16.87
   -17.89       'linguistically'
}
"SELECT count(\*), count(x), count(y) FROM xx"  {3 2 3}
"SELECT sum(x), sum(y) FROM xx"               {-17.89 -16.87}
}

# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
# There are more detailed tests for subsequent requirements that add
# more detail to this idea. We just add a single test that shows that
# data is coming from each of the three tables following the FROM clause
# here to show that the statement, vague as it is, is not incorrect.
#
do_select_tests e_select-1.3 {
  "SELECT * FROM t1, t2, t3" {
    a one a I a 1 a one a I b 2 a one b II a 1
    a one b II b 2 a one c III a 1 a one c III b 2
    b two a I a 1 b two a I b 2 b two b II a 1
    b two b II b 2 b two c III a 1 b two c III b 2
    c three a I a 1 c three a I b 2 c three b II a 1
    c three b II b 2 c three c III a 1 c three c III b 2
  }
}

# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (","), and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
# The tests are built on this assertion. Really, they test that the output
# of a CROSS JOIN, JOIN, INNER JOIN or ",," join matches the expected result
# of calculating the cartesian product of the left and right-hand datasets.
#
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and ",," join operators.
#
# EVIDENCE-OF: R-07544-24155 The "CROSS JOIN" join operator produces the
# same data as the "INNER JOIN", "JOIN" and ",," operators
#
# All tests are run 4 times, with the only difference in each run being
# which of the 4 equivalent cartesian product join operators are used.
# Since the output data is the same in all cases, we consider that this
# qualifies as testing the two statements above.
#
do_execsql_test e_select-1.4.0 {
    CREATE TABLE x1(a, b);
    CREATE TABLE x2(c, d, e);
    CREATE TABLE x3(f, g, h, i);

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

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

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

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

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

do_join_test e_select-1.4.1.3 {
    SELECT * FROM x3 %JOIN% x2 LIMIT 1
} [concat {-39.24 {} encompass -1} {-60.06 {} {}}]

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

# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product
data set formed by combining each unique combination of a row from the
left-hand and right-hand datasets.
### EVIDENCE-OF: R-20659-43267

In other words, if the left-hand dataset consists of \( N_{lhs} \) rows of \( M_{lhs} \) columns, and the right-hand dataset of \( N_{rhs} \) rows of \( M_{rhs} \) columns, then the cartesian product is a dataset of \( N_{lhs} \cdot N_{rhs} \) rows, each containing \( M_{lhs} + M_{rhs} \) columns.

#### # x1, x2 (\( N_{lhs}=3, N_{rhs}=2 \)) (\( M_{lhs}=2, M_{rhs}=3 \))

```sql
do_join_test e_select-1.4.3.1 {
  SELECT count(*) FROM x1 %JOIN% x2
} [expr 3*2]
```

#### # x2, x3 (\( N_{lhs}=2, N_{rhs}=5 \)) (\( M_{lhs}=3, M_{rhs}=4 \))

```sql
do_join_test e_select-1.4.3.3 {
  SELECT count(*) FROM x2 %JOIN% x3
} [expr 2*5]
```

#### # x3, x1 (\( N_{lhs}=5, N_{rhs}=3 \)) (\( M_{lhs}=4, M_{rhs}=2 \))

```sql
do_join_test e_select-1.4.3.5 {
  SELECT count(*) FROM x3 %JOIN% x1
} [expr 5*3]
```

#### # x3, x3 (\( N_{lhs}=5, N_{rhs}=5 \)) (\( M_{lhs}=4, M_{rhs}=4 \))

```sql
do_join_test e_select-1.4.3.7 {
  SELECT count(*) FROM x3 %JOIN% x3
} [expr 5*5]
```
do_test e_select-1.4.3.8 {
  expr ([llength [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}]] / 25)
} [expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y } $t1_cross_t1

do_select_tests e_select-1.4.5 [list
  1 { SELECT * FROM t1 CROSS JOIN t2 } $t1_cross_t2
  2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t1
  3 { SELECT * FROM t1 INNER JOIN t2 } $t1_cross_t2
  4 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t1
]

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

# EVIDENCE-OF: R-63358-54862 If there is a USING clause specified as
# part of the join-constraint, then each of the column names specified
# must exist in the datasets to both the left and right of the join-op.
#
do_select_tests e_select-1.4 -error {

cannot join using column %s - column not present in both tables

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

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

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

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

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

# do_execsql_test e_select-1.6.0 
CREATE TABLE t5(a COLLATE nocase, b COLLATE binary);
INSERT INTO t5 VALUES('AA', 'cc');
INSERT INTO t5 VALUES('BB', 'dd');
INSERT INTO t5 VALUES(NULL, NULL);
CREATE TABLE t6(a COLLATE binary, b COLLATE nocase);
INSERT INTO t6 VALUES('aa', 'cc');
INSERT INTO t6 VALUES('bb', 'DD');
INSERT INTO t6 VALUES(NULL, NULL);
} {}
foreach {tn select res} {
1 { SELECT * FROM t5 %JOIN% t6 USING (a) } {AA cc cc BB dd DD}
2 { SELECT * FROM t6 %JOIN% t5 USING (a) } {} 
3 { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) %JOIN% t5 USING (a) }
{aa cc cc bb DD dd}
4 { SELECT * FROM t5 %JOIN% t6 USING (a,b) } {AA cc}
5 { SELECT * FROM t6 %JOIN% t5 USING (a,b) } {}
} 
do_join_test e_select-1.6.$tn $select $res

# EVIDENCE-OF: R-57047-10461 For each pair of columns identified by a
# USING clause, the column from the right-hand dataset is omitted from
# the joined dataset.
#
# EVIDENCE-OF: R-56132-15700 This is the only difference between a USING
# clause and its equivalent ON constraint.
#
foreach {tn select res} {
  1a { SELECT * FROM t1 %JOIN% t2 USING (a) }
  {a one I b two II c three III}
  1b { SELECT * FROM t1 %JOIN% t2 ON (t1.a=t2.a) }
  {a one a I b two b II c three c III}

  2a { SELECT * FROM t3 %JOIN% t4 USING (a) }
  {a 1 {} b 2 2}
  2b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a) }
  {a 1 a {} b 2 b 2}

  3a { SELECT * FROM t3 %JOIN% t4 USING (a,c) }
  {b 2}
  3b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a AND t3.c=t4.c) }
  {b 2 b 2}

  4a { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
          %JOIN% t5 USING (a) }
  {aa cc cc bb DD dd}
  4b { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
          %JOIN% t5 ON (x.a=t5.a) }
  {aa cc AA cc bb DD BB dd}
} {
do_join_test e_select-1.7.$tn $select $res
}

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

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

  INSERT INTO t8 VALUES('x', 'abc', 24);
  INSERT INTO t8 VALUES('z', 'ghi', 26);
} {
do_select_tests e_select-1.8
1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)" {2}
2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}
2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2}

# EVIDENCE-OF: R-15607-52988 The added rows contain NULL values in the
# columns that would normally contain values copied from the right-hand
# input dataset.
#
do_select_tests e_select-1.9 {
  1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" {x ex 24 x abc 24}
  1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
      {x ex 24 x abc 24 y why 25 {} {} {}}
  2a "SELECT * FROM t7 JOIN t8 USING (a)
      {x ex 24 abc 24 ex 24}
  2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)
      {x ex 24 abc 24 y why 25 {} {} {}}
}

# EVIDENCE-OF: R-01809-52134 If the NATURAL keyword is added to any of
# the join-ops, then an implicit USING clause is added to the
# join-constraints. The implicit USING clause contains each of the
# column names that appear in both the left and right-hand input
# datasets.
#
do_select_tests e_select-1-10 {
  1a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 x abc 24}
  1b "SELECT * FROM t7 NATURAL JOIN t8" {x ex 24 abc 24}
  2a "SELECT * FROM t8 JOIN t7 USING (a)
      {x abc 24 ex 24}
  2b "SELECT * FROM t8 NATURAL JOIN t7
      {x abc 24 ex 24 y why 25 {} {} {}}
  3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)
      {x ex 24 abc 24 y why 25 {} {} {}}
  3b "SELECT * FROM t7 NATURAL LEFT JOIN t8
      {x ex 24 abc 24 y why 25 {} {} {}}
  4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)
      {x abc 24 ex 24 z ghi 26 {} {} {}}
  4b "SELECT * FROM t8 NATURAL LEFT JOIN t7
      {x abc 24 ex 24 z ghi 26 {} {} {}}
  5a "SELECT * FROM t3 JOIN t4 USING (a,c)
      {b 2}
  5b "SELECT * FROM t3 NATURAL JOIN t4
      {b 2}
  6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)"
      {a 1 b 2}
  6b "SELECT * FROM t3 NATURAL LEFT JOIN t4
      {a 1 b 2}
}

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

do_select_tests e_select-1-11 {
  1a "SELECT a, x FROM t1 CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
  1b "SELECT a, x FROM t1 NATURAL CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
}

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

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

    CREATE TABLE x2(k, x, y2);
    INSERT INTO x2 VALUES(1, 50, X'B82838');
    INSERT INTO x2 VALUES(5, 84.79, 65.88);
    INSERT INTO x2 VALUES(3, -22, X'0E1BE452A393');
    INSERT INTO x2 VALUES(7, 'mistrusted', 'standardized');
} {}

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

---

do_execsql_test e_select-3.2.1a {
    SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {1 2 3 4 5 6}
do_execsql_test e_select-3.2.1b {
    SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k
} {1 3 5}
do_execsql_test e_select-3.2.2 {
    SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k IS NULL
} {2 4 6}
do_execsql_test e_select-3.2.3 {
    SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}
do_execsql_test e_select-3.2.4 {
    SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k-3
} {}

---

do_execsql_test e_select-4.0 {
    CREATE TABLE z1(a, b, c);
    CREATE TABLE z2(d, e);
    CREATE TABLE z3(a, b);
    INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
    INSERT INTO z1 VALUES(-5, NULL, 75);
    INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
    INSERT INTO z1 VALUES(NULL, 67, 'quartets');
    INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
    INSERT INTO z1 VALUES(63, 'born', -26);
    INSERT INTO z2 VALUES(NULL, 21);
    INSERT INTO z2 VALUES(36, 6);
    INSERT INTO z3 VALUES('subsistence', 'gauze');
INSERT INTO z3 VALUES(49.17, -67);
} {}

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

# EVIDENCE-OF: R-61869-22578 It is an error to use a "*" or "alias.*"
# expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or
# "alias.*" expression in a simple SELECT query that does not have a
# FROM clause.
#
foreach {tn select err} {
1.1 "SELECT a, b, c FROM z1 WHERE *
   {near ":*": syntax error}"
1.2 "SELECT a, b, c FROM z1 GROUP BY *
   {near ":*": syntax error}"
1.3 "SELECT 1 + * FROM z1" {near ":*": syntax error}"
1.4 "SELECT * + 1 FROM z1" {near ":+": syntax error}"
2.1 "SELECT *" {no tables specified}
2.2 "SELECT * WHERE 1" {no tables specified}
2.3 "SELECT * WHERE 0" {no tables specified}
2.4 "SELECT count(*), *" {no tables specified}
}
do_catchsql_test e_select-4.2.$tn $select [list 1 $err]

# EVIDENCE-OF: R-08669-22397 The number of columns in the rows returned
# by a simple SELECT statement is equal to the number of expressions in
# the result expression list after substitution of * and alias.*
# expressions.
#
foreach {tn select nCol} {
1   "SELECT * FROM z1"   3
2   "SELECT * FROM z1 NATURAL JOIN z3"            3
3   "SELECT z1.* FROM z1 NATURAL JOIN z3"         3
4   "SELECT z3.* FROM z1 NATURAL JOIN z3"         2
5   "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3"   5
6   "SELECT 1, 2, z1.* FROM z1"                   5
7   "SELECT a, *, b, c FROM z1"                   6
} {
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
do_test e_select-4.3.$tn { sqlite3_column_count $::stmt } $nCol
sqlite3_finalize $::stmt
}

# In lang_select.html, a non-aggregate query is defined as any simple SELECT
# that has no GROUP BY clause and no aggregate expressions in the result
# expression list. Other queries are aggregate queries. Test cases
# e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of
# simple SELECT that is different for aggregate and non-aggregate queries
# verify (in a way) that these definitions are consistent:
#
# EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate
# query if it contains either a GROUP BY clause or one or more aggregate
# functions in the result-set.
#
# EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no
# aggregate functions or a GROUP BY clause, it is a non-aggregate query.
#
# EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate
# query, then each expression in the result expression list is evaluated
# for each row in the dataset filtered by the WHERE clause.
#
do_select_tests e_select-4.4 {
1   "SELECT a, b FROM z1"
   [51.65 -59.58 -5 {} -2.2 -23.18 {} 67 -1.04 -32.3 63 born]
2   "SELECT a IS NULL, b+1, * FROM z1"
3 "SELECT 32*32, d||e FROM z2" {1024 {} 1024 366}
}

# Test cases e_select-4.5.* and e_select-4.6.* together show that:
#
# EVIDENCE-OF: R-51988-01124 The single row of result-set data created
# by evaluating the aggregate and non-aggregate expressions in the
# result-set forms the result of an aggregate query without a GROUP BY
# clause.
#
# EVIDENCE-OF: R-57629-25253 If the SELECT statement is an aggregate
# query without a GROUP BY clause, then each aggregate expression in the
# result-set is evaluated once across the entire dataset.
#
do_select_tests e_select-4.5 {
1 "SELECT count(a), max(a), count(b), max(b) FROM z1" {5 63 5 born}
2 "SELECT count(*), max(1)" {1 1}
3 "SELECT sum(b+1) FROM z1 NATURAL LEFT JOIN z3" {-43.06}
4 "SELECT sum(b+2) FROM z1 NATURAL LEFT JOIN z3" {-38.06}
5 "SELECT sum(b IS NOT NULL) FROM z1 NATURAL LEFT JOIN z3" {5}
}

# EVIDENCE-OF: R-26684-40576 Each non-aggregate expression in the
# result-set is evaluated once for an arbitrarily selected row of the
# dataset.
#
# EVIDENCE-OF: R-27994-60376 The same arbitrarily selected row is used
# for each non-aggregate expression.
#
# Note: The results of many of the queries in this block of tests are
# technically undefined, as the documentation does not specify which row
# SQLite will arbitrarily select to use for the evaluation of the
# non-aggregate expressions.
#
drop_all_tables
do_execsql_test e_select-4.6.0 {
  CREATE TABLE a1(one PRIMARY KEY, two);
}
INSERT INTO a1 VALUES(1, 1);
INSERT INTO a1 VALUES(2, 3);
INSERT INTO a1 VALUES(3, 6);
INSERT INTO a1 VALUES(4, 10);

CREATE TABLE a2(one PRIMARY KEY, three);
INSERT INTO a2 VALUES(1, 1);
INSERT INTO a2 VALUES(3, 2);
INSERT INTO a2 VALUES(6, 3);
INSERT INTO a2 VALUES(10, 4);

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

# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
# entirely of NULL values.
#

do_select_tests e_select-4.7 {
  1 "SELECT one, two, count(*) FROM a1 WHERE 0"           {{} {} 0}
  2 "SELECT sum(two), * FROM a1, a2 WHERE three>5"        {{} {} {} {} {}}
  3 "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7" {1 1 1}
}

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

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

# Set $nRow to the number of rows returned by $select:
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
set nRow 0
while {"SQLITE_ROW" == [sqlite3_step ::stmt]} { incr nRow }

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set rc [sqlite3_finalize $::stmt]

# Test that $nRow==1 and that statement execution was successful
# (rc==SQLITE_OK).
do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}
drop_all_tables
do_execsql_test e_select-4.9.0 {
    CREATE TABLE b1(one PRIMARY KEY, two);
    INSERT INTO b1 VALUES(1, 'o');
    INSERT INTO b1 VALUES(4, 't');
    INSERT INTO b1 VALUES(3, 't');
    INSERT INTO b1 VALUES(2, 't');
    INSERT INTO b1 VALUES(5, 'f');
    INSERT INTO b1 VALUES(7, 's');
    INSERT INTO b1 VALUES(6, 's');

    CREATE TABLE b2(x, y);
    INSERT INTO b2 VALUES(NULL, 0);
    INSERT INTO b2 VALUES(NULL, 1);
    INSERT INTO b2 VALUES('xyz', 2);
    INSERT INTO b2 VALUES('abc', 3);
    INSERT INTO b2 VALUES('xyz', 4);

    CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);
    INSERT INTO b3 VALUES('abc', 'abc');
    INSERT INTO b3 VALUES('aBC', 'aBC');
    INSERT INTO b3 VALUES('Def', 'Def');
    INSERT INTO b3 VALUES('dEF', 'dEF');
} {}

# EVIDENCE-OF: R-57754-57109 If the SELECT statement is an aggregate
# query with a GROUP BY clause, then each of the expressions specified
# as part of the GROUP BY clause is evaluated for each row of the
# dataset. Each row is then assigned to a "group" based on the results;
# rows for which the results of evaluating the GROUP BY expressions are
# the same are assigned to the same group.
#
# These tests also show that the following is not untrue:
#
# EVIDENCE-OF: R-25883-55063 The expressions in the GROUP BY clause do
# not have to be expressions that appear in the result.
#
do_select_tests e_select-4.9 {
    1 "SELECT group_concat(one), two FROM b1 GROUP BY two" {
        /## f 1 o ## s ## t/
    }
2 "SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {1,2,3,4 10 5,6,7 18}
3 "SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" {
  4 1,5 2,6 3,7}
4 "SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" {
  4,3,5,7,6 1,2}

# EVIDENCE-OF: R-14926-50129 For the purposes of grouping rows, NULL values are considered equal.
#
do_select_tests e_select-4.10 {
  1 "SELECT group_concat(y) FROM b2 GROUP BY x" {#,# 3 #,#/#}
  2 "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END" {4 1}
}

# EVIDENCE-OF: R-10470-30318 The usual rules for selecting a collation sequence with which to compare text values apply when evaluating expressions in a GROUP BY clause.
#
do_select_tests e_select-4.11 {
  1 "SELECT count(*) FROM b3 GROUP BY b" {1 1 1 1}
  2 "SELECT count(*) FROM b3 GROUP BY a" {2 2}
  3 "SELECT count(*) FROM b3 GROUP BY +b" {1 1 1 1}
  4 "SELECT count(*) FROM b3 GROUP BY +a" {2 2}
  5 "SELECT count(*) FROM b3 GROUP BY b||" {1 1 1 1}
  6 "SELECT count(*) FROM b3 GROUP BY a||" {1 1 1 1}
}

# EVIDENCE-OF: R-63573-50730 The expressions in a GROUP BY clause may not be aggregate expressions.
#
foreach {tn select} {
  12.1 "SELECT * FROM b3 GROUP BY count(*)"
  12.2 "SELECT max(a) FROM b3 GROUP BY max(b)"
  12.3 "SELECT group_concat(a) FROM b3 GROUP BY a, max(b)"
} {
  set res {1 {aggregate functions are not allowed in the GROUP BY clause}}
  do_catchsql_test e_select-4.$tn $select $res
}

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

CREATE TABLE c2(i, j);
INSERT INTO c2 VALUES(1, 0);
INSERT INTO c2 VALUES(2, 1);
INSERT INTO c2 VALUES(3, 3);
INSERT INTO c2 VALUES(4, 6);
INSERT INTO c2 VALUES(5, 10);
INSERT INTO c2 VALUES(6, 15);
INSERT INTO c2 VALUES(7, 21);
INSERT INTO c2 VALUES(8, 28);
INSERT INTO c2 VALUES(9, 36);

CREATE TABLE c3(i PRIMARY KEY, k TEXT);
INSERT INTO c3 VALUES(1, 'hydrogen');
INSERT INTO c3 VALUES(2, 'helium');
INSERT INTO c3 VALUES(3, 'lithium');
INSERT INTO c3 VALUES(4, 'beryllium');
INSERT INTO c3 VALUES(5, 'boron');
INSERT INTO c3 VALUES(94, 'plutonium');
} {}
do_select_tests e_select-4.13 {
  1.1 "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" {x}
  1.2 "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" {y}
  1.3 "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" {x}
  1.4 "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" {x4}

  2.1 "SELECT up FROM c1 GROUP BY up HAVING down>10" {y}
  2.2 "SELECT up FROM c1 GROUP BY up HAVING up='y'" {y}

  2.3 "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6" {9 36}
}

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

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

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows
# contributes a single row to the set of result rows.
#
# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
with a GROUP BY clause is the same as the number of groups of rows
produced by applying the GROUP BY and HAVING clauses to the filtered
input dataset.

do_select_tests e_select.4.16 -count {
1  "SELECT i, j FROM c2 GROUP BY i%2"          2
2  "SELECT i, j FROM c2 GROUP BY i"            9
3  "SELECT i, j FROM c2 GROUP BY i HAVING i<5" 4
}

# The following tests attempt to verify statements made regarding the ALL
# and DISTINCT keywords.

drop_all_tables
do_execsql_test e_select-5.1.0 {
CREATE TABLE h1(a, b);
INSERT INTO h1 VALUES(1, 'one');
INSERT INTO h1 VALUES(1, 'I');
INSERT INTO h1 VALUES(1, 'i');
INSERT INTO h1 VALUES(4, 'four');
INSERT INTO h1 VALUES(4, 'IV');
INSERT INTO h1 VALUES(4, 'iv');

CREATE TABLE h2(x COLLATE nocase);
INSERT INTO h2 VALUES('One');
INSERT INTO h2 VALUES('Two');
INSERT INTO h2 VALUES('Three');
INSERT INTO h2 VALUES('Four');
INSERT INTO h2 VALUES('one');
INSERT INTO h2 VALUES('two');
INSERT INTO h2 VALUES('three');
INSERT INTO h2 VALUES('four');

CREATE TABLE h3(c, d);
INSERT INTO h3 VALUES(1, NULL);
INSERT INTO h3 VALUES(2, NULL);
INSERT INTO h3 VALUES(3, NULL);
INSERT INTO h3 VALUES(4, '2');
INSERT INTO h3 VALUES(5, NULL);
INSERT INTO h3 VALUES(6, '2,3');
INSERT INTO h3 VALUES(7, NULL);
INSERT INTO h3 VALUES(8, '2,4');
INSERT INTO h3 VALUES(9, '3');
}

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

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

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

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

# EVIDENCE-OF: R-58359-52112 The normal rules for selecting a collation
# sequence to compare text values with apply.
#
do_select_tests e_select-5.6 {
  1 "SELECT DISTINCT b FROM h1" {one I i four IV iv}
  2 "SELECT DISTINCT b COLLATE nocase FROM h1" {one I i four IV}
  3 "SELECT DISTINCT x FROM h2" {One Two Three Four}
  4 "SELECT DISTINCT x COLLATE binary FROM h2" {One Two Three Four one two three four
  }
}
The following tests - e_select-7.* - test that statements made to do
with compound SELECT statements are correct.

EVIDENCE-OF: R-39368-64333 In a compound SELECT, all the constituent
SELECTs must return the same number of result columns.

All the other tests in this section use compound SELECTs created
using component SELECTs that do return the same number of columns.
So the tests here just show that it is an error to attempt otherwise.

drop_all_tables
do_execsql_test e_select-7.1.0 {
CREATE TABLE j1(a, b, c);
CREATE TABLE j2(e, f);
CREATE TABLE j3(g);
}
do_select_tests e_select-7.1 -error {
SELECTs to the left and right of %s do not have the same number of result columns
}

1 "SELECT a, b FROM j1    UNION ALL SELECT g FROM j3"  {{UNION ALL}}
2 "SELECT * FROM j1    UNION ALL SELECT * FROM j3"  {{UNION ALL}}
3 "SELECT a, b FROM j1    UNION ALL SELECT g FROM j3"  {{UNION ALL}}
4 "SELECT a, b FROM j1    UNION ALL SELECT * FROM j3,j2" {{UNION ALL}}
5 "SELECT * FROM j3,j2 UNION ALL SELECT a, b FROM j1" {{UNION ALL}}

6 "SELECT a, b FROM j1    UNION SELECT g FROM j3"        {UNION}
7 "SELECT * FROM j1    UNION SELECT * FROM j3"        {UNION}
8 "SELECT a, b FROM j1    UNION SELECT g FROM j3"        {UNION}
9 "SELECT a, b FROM j1    UNION SELECT * FROM j3,j2"     {UNION}
10 "SELECT * FROM j3,j2 UNION SELECT a, b FROM j1"     {UNION}

11 "SELECT a, b FROM j1    INTERSECT SELECT g FROM j3"    {INTERSECT}
12 "SELECT * FROM j1    INTERSECT SELECT * FROM j3"    {INTERSECT}
13 "SELECT a, b FROM j1    INTERSECT SELECT g FROM j3"    {INTERSECT}
14 "SELECT a, b FROM j1    INTERSECT SELECT * FROM j3,j2" {INTERSECT}
15 "SELECT * FROM j3,j2 INTERSECT SELECT a, b FROM j1" {INTERSECT}

16 "SELECT a, b FROM j1    EXCEPT SELECT g FROM j3"       {EXCEPT}
17 "SELECT * FROM j1    EXCEPT SELECT * FROM j3"       {EXCEPT}
18 "SELECT a, b FROM j1    EXCEPT SELECT g FROM j3"       {EXCEPT}
19 "SELECT a, b FROM j1    EXCEPT SELECT * FROM j3,j2"    {EXCEPT}
20 "SELECT * FROM j3,j2 EXCEPT SELECT a, b FROM j1"    {EXCEPT}

EVIDENCE-OF: R-01450-11152 As the components of a compound SELECT must
# be simple SELECT statements, they may not contain ORDER BY or LIMIT clauses.
# 
foreach {tn select op1 op2} {
1   "SELECT * FROM j1 ORDER BY a UNION ALL SELECT * FROM j2,j3"
   {ORDER BY} {UNION ALL}
2   "SELECT count(*) FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2"
   {ORDER BY} {UNION ALL}
3   "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *,* FROM j2"
   {ORDER BY} {UNION ALL}
4   "SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j2,j3"
   LIMIT {UNION ALL}
5   "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION ALL SELECT * FROM j2,j3"
   LIMIT {UNION ALL}
6   "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION ALL SELECT g FROM j2,j3"
   LIMIT {UNION ALL}
7   "SELECT * FROM j1 ORDER BY a UNION SELECT * FROM j2,j3"
   {ORDER BY} {UNION}
8   "SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"
   {ORDER BY} {UNION}
9   "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"
   {ORDER BY} {UNION}
10  "SELECT * FROM j1 LIMIT 10 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
11  "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
12  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"
    LIMIT {UNION}
13  "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"
    {ORDER BY} {EXCEPT}
14  "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"
    {ORDER BY} {EXCEPT}
15  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *,* FROM j2"
    {ORDER BY} {EXCEPT}
16  "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
17  "SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
18  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"
    LIMIT {EXCEPT}
19  "SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
    {ORDER BY} {INTERSECT}
20  "SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
    {ORDER BY} {INTERSECT}
21  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 INTERSECT SELECT *,* FROM j2"
[ORDER BY] {INTERSECT}
22 "SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3"
   LIMIT {INTERSECT}
23 "SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3"
   LIMIT {INTERSECT}
24 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) INTERSECT SELECT g FROM j2,j3"
   LIMIT {INTERSECT}
} {
  set err "$op1 clause should come after $op2 not before"
  do_catchsql_test e_select-7.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach {tn select} {
  1 "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
  2 "SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"
  3 "SELECT count(*), * FROM j1 UNION ALL SELECT *, * FROM j2 ORDER BY 1,2,3"
  4 "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"
  5 "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  6 "SELECT a FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"
  7 "SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"
  8 "SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"
  9 "SELECT count(*), * FROM j1 UNION SELECT *, * FROM j2 ORDER BY 1,2,3"
 10 "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"
 11 "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
 12 "SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"
 13 "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"
 14 "SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"
 15 "SELECT count(*), * FROM j1 EXCEPT SELECT *, * FROM j2 ORDER BY 1,2,3"
 16 "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"
 17 "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
 18 "SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
 19 "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"
 20 "SELECT count(*) FROM j1 INTERSECT SELECT max(e) FROM j2 ORDER BY 1"
 21 "SELECT count(*), * FROM j1 INTERSECT SELECT *, * FROM j2 ORDER BY 1,2,3"
 22 "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"
 23 "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
 24 "SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
} {
  do_test e_select-7.3.$tn { catch {execsql $select} msg } 0
}

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

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

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

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

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

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

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

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

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

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as UNION ALL, except that duplicate rows are removed from the final result set.

```sql
do_select_tests e_select-7.5 {
  1  {SELECT a FROM q1 UNION SELECT d FROM q2}
     {-65.91 16 beauty emanating legible}

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

  3  {SELECT count(*) FROM q1 UNION SELECT min(e) FROM q2}
     {-16.56 3}
```
4  {SELECT * FROM q2 UNION SELECT * FROM q3}  
   {-65.91 4 beauty 2 emanating -16.56 legible 1}  
}

# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the 
# intersection of the results of the left and right SELECTs.  
#
# do_select_tests e_select-7.6 {
1   {SELECT a FROM q1 INTERSECT SELECT d FROM q2} {beauty legible}
2   {SELECT * FROM q2 INTERSECT SELECT * FROM q3} {beauty 2}
}

# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of 
# rows returned by the left SELECT that are not also returned by the 
# right-hand SELECT.  
#
# do_select_tests e_select-7.7 {
1   {SELECT a FROM q1 EXCEPT SELECT d FROM q2} {16}
2   {SELECT * FROM q2 EXCEPT SELECT * FROM q3}  
   {-65.91 4 emanating -16.56 legible 1}  
}

# EVIDENCE-OF: R-40729-56447 Duplicate rows are removed from the results 
# of INTERSECT and EXCEPT operators before the result set is returned.  
#
# do_select_tests e_select-7.8 {
0   {SELECT * FROM q3} {beauty 2 beauty 2}  
1   {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
2   {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1}  {beauty 2}
}

# EVIDENCE-OF: R-46765-43362 For the purposes of determining duplicate 
# rows for the results of compound SELECT operators, NULL values are 
# considered equal to other NULL values and distinct from all non-NULL 
# values.  
#
# db nullvalue null
# do_select_tests e_select-7.9 {
1   {SELECT NULL UNION ALL SELECT NULL} {null null}
2   {SELECT NULL UNION SELECT NULL}  {null}
3   {SELECT NULL INTERSECT SELECT NULL} {null}
4   {SELECT NULL EXCEPT SELECT NULL}  {}
5   {SELECT NULL UNION ALL SELECT 'ab'} {null ab}
6   {SELECT NULL UNION SELECT 'ab'}  {null ab}
7  {SELECT NULL INTERSECT SELECT 'ab'} {} 
8  {SELECT NULL EXCEPT SELECT 'ab'} {null} 

9  {SELECT NULL UNION ALL SELECT 0} {null 0} 
10 {SELECT NULL UNION SELECT 0} {null 0} 
11 {SELECT NULL INTERSECT SELECT 0} {} 
12 {SELECT NULL EXCEPT SELECT 0} {null} 

13 {SELECT c FROM q1 UNION ALL SELECT g FROM q3} {null -42.47 null 2 2} 
14 {SELECT c FROM q1 UNION SELECT g FROM q3} {null -42.47 2} 
15 {SELECT c FROM q1 INTERSECT SELECT g FROM q3} {} 
16 {SELECT c FROM q1 EXCEPT SELECT g FROM q3} {null -42.47} 
} 
db nullvalue {} 

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

6 {SELECT a FROM y1 UNION SELECT b FROM y1} {abc} 
7 {SELECT b FROM y1 UNION SELECT a FROM y1} {Abc abc} 
8 {SELECT a FROM y1 UNION SELECT c FROM y1} {aBC} 

9 {SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1} {aBC} 
} 

# EVIDENCE-OF: R-32706-07403 No affinity transformations are applied to 
# any values when comparing rows as part of a compound SELECT. 
# 
# drop_all_tables
# do_execsql_test e_select-7.10.0 {
# CREATE TABLE w1(a TEXT, b NUMBER);
# CREATE TABLE w2(a, b TEXT);
INSERT INTO w1 VALUES('1', 4.1);
INSERT INTO w2 VALUES(1, 4.1);
}

do_select_tests e_select-7.11 {
  1 { SELECT a FROM w1 UNION SELECT a FROM w2 } {1 1}
  2 { SELECT a FROM w2 UNION SELECT a FROM w1 } {1 1}
  3 { SELECT b FROM w1 UNION SELECT b FROM w2 } {4.1 4.1}
  4 { SELECT b FROM w2 UNION SELECT b FROM w1 } {4.1 4.1}
  5 { SELECT a FROM w1 INTERSECT SELECT a FROM w2 } {}
  6 { SELECT a FROM w2 INTERSECT SELECT a FROM w1 } {}
  7 { SELECT b FROM w1 INTERSECT SELECT b FROM w2 } {}
  8 { SELECT b FROM w2 INTERSECT SELECT b FROM w1 } {}
  9 { SELECT a FROM w1 EXCEPT SELECT a FROM w2 } {1}
 10 { SELECT a FROM w2 EXCEPT SELECT a FROM w1 } {1}
 11 { SELECT b FROM w1 EXCEPT SELECT b FROM w2 } {4.1}
 12 { SELECT b FROM w2 EXCEPT SELECT b FROM w1 } {4.1}
}

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

2a "((1,2) UNION (3) UNION ALL (1)) {1 2 3 1}
2b "((1) UNION ALL (3) UNION (1,2)) {1 2 3}

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

4a "((1,2) INTERSECT (1) UNION ALL (3)) {1 3}
4b "((3) UNION (1,2) INTERSECT (1)) {1}

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

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

7 "((2,3) EXCEPT (2) EXCEPT (3)) {}

set select [string map {{SELECT y FROM t1 WHERE y IN {}}} $select]
do_execsql_test e_select-7.12.$tn $select [list {*}$res]
}

#-------------------------------------------------------------
# ORDER BY clauses
#
#

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

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

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

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

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

# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant
# integer K then the expression is considered an alias for the K-th
# column of the result set (columns are numbered from left to right
# starting with 1).

```
do_select_tests e_select-8.4 {
  1  "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
        1 2 -20 1 2 3 1 2 7 1 2 8
        1 4 93 1 5 -1 2 4 93 2 5 -1
    }
  2  "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {
        1 2 8 1 2 7 1 2 -20 1 2 3
        1 4 93 1 5 -1 2 4 93 2 5 -1
    }
  3  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 DESC" {
        2 4 93 2 5 -1 1 2 8 1 2 7
        1 2 3 1 2 -20 1 4 93 1 5 -1
    }
  4  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 ASC" {
        2 4 93 2 5 -1 1 2 -20 1 2 3
        1 2 7 1 2 8 1 4 93 1 5 -1
    }
  5  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
        2 4 93 2 5 -1 1 2 -20 1 2 3
        1 2 7 1 2 8 1 4 93 1 5 -1
    }
  6  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
        2 4 93 2 5 -1 1 2 -20 1 2 3
        1 2 7 1 2 8 1 4 93 1 5 -1
    }
  7  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
        2 4 93 2 5 -1 1 2 -20 1 2 3
        1 2 7 1 2 8 1 4 93 1 5 -1
    }
  8  "SELECT z, x FROM d1 ORDER BY 2" {
```

If the ORDER BY expression is an identifier that corresponds to the alias of one of the output columns, then the expression is considered an alias for that column.

Otherwise, if the ORDER BY expression is any other expression, it is evaluated and the returned value used to order the output rows.

If the SELECT statement is a simple SELECT, then an ORDER BY may contain any arbitrary expressions.

```sql
// EVIDENCE-OF: R-63286-51977
# SELECT z, x FROM d1 ORDER BY 1
/-20 1 -1 # -1 # 3 1
7 1 8 1 93 # 93 #/
}

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

# EVIDENCE-OF: R-03421-57988
If the SELECT statement is a simple SELECT, then an ORDER BY may contain any arbitrary expressions.

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

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

# EVIDENCE-OF: R-03421-57988
If the SELECT statement is a simple SELECT, then an ORDER BY may contain any arbitrary expressions.

do_select_tests e_select-8.6 {
1 "SELECT * FROM d1 ORDER BY x+y+z" {
1 2 -20 1 5 -1 1 2 3 2 5 -1
1 2 7 1 2 8 1 4 93 2 4 93
}
2 "SELECT * FROM d1 ORDER BY x*z" {
1 2 -20 2 5 -1 1 2 3
1 2 7 1 2 8 1 4 93 2 4 93
}
3 "SELECT * FROM d1 ORDER BY y*z" {
1 2 -20 2 5 -1 1 2 3
1 2 7 1 2 8 2 4 93 1 4 93
}
```
# EVIDENCE-OF: R-28853-08147 However, if the SELECT is a compound
# SELECT, then ORDER BY expressions that are not aliases to output
# columns must be exactly the same as an expression used as an output
# column.
#
do_select_tests e_select-8.7.1 -error {
  %s ORDER BY term does not match any column in the result set
}
  1  "SELECT x FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z"  1st
  2  "SELECT x,z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" 2nd
}
do_select_tests e_select-8.7.2 {
  1  "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" {
      -20 -2 -1 3 7 8 93 186 babied barked commercials gently
      iterate lad pragmatist reemphasizes rejoicing solemnness
  }
  2  "SELECT x, x/z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" {
      1 -1 1 0 1 0 1 0 1 0 2 -2 2 0
      babied charitableness barked interrupted commercials bathrobe gently
      failings iterate sexton lad relenting pragmatist guarded reemphasizes reply
      rejoicing liabilities solemnness annexed
  }
}
do_execsql_test e_select-8.8.0 {
  CREATE TABLE d3(a);
  INSERT INTO d3 VALUES('text');
  INSERT INTO d3 VALUES(14.1);
  INSERT INTO d3 VALUES(13);
  INSERT INTO d3 VALUES(X'78787878');
  INSERT INTO d3 VALUES(15);
  INSERT INTO d3 VALUES(12.9);
  INSERT INTO d3 VALUES(null);
  CREATE TABLE d4(x COLLATE nocase);
  INSERT INTO d4 VALUES('abc');
  INSERT INTO d4 VALUES('ghi');
  INSERT INTO d4 VALUES('DEF');
  INSERT INTO d4 VALUES('JKL');
  } {}
# EVIDENCE-OF: R-10883-17697 For the purposes of sorting rows, values
# are compared in the same way as for comparison expressions.
#
# The following tests verify that values of different types are sorted
# correctly, and that mixed real and integer values are compared properly.
#
# do_execsql_test e_select-8.8.1 {
SELECT a FROM d3 ORDER BY a
} {12.9 13 14.1 15 text xxxx}
# do_execsql_test e_select-8.8.2 {
SELECT a FROM d3 ORDER BY a DESC
} {xxxx text 15 14.1 13 12.9 {}}

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

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

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

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

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

INSERT INTO d5 VALUES(1, 't');  
INSERT INTO d6 VALUES(2, 'e');  
INSERT INTO d7 VALUES(3, 'd');  
INSERT INTO d5 VALUES(4, 'c');  
INSERT INTO d6 VALUES(5, 'b');  
INSERT INTO d7 VALUES(6, 'a');  

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

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

---

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4   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7 
    ORDER BY 1 }
} {1 2 3 4 5 6}

5   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY b }
{ f 1  c 4  4 c 1 f }

6   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 2 }
{ f 1  c 4  4 c 1 f }

7   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY a }
{ f 1  c 4  4 c 1 f }

8   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 1 }
{ f 1  c 4  4 c 1 f }

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

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

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

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

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

# EVIDENCE-OF: R-03407-11483 Each term of the ORDER BY clause is
# processed separately and may be matched against result columns from
# different SELECT statements in the compound.
#
# do_select_tests e_select-8.15 {
1   { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d } 1st
1 e 1 f 4 b 4 c
2   { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY c-1, b }
do_execsql_test e_select-9.0 {
  CREATE TABLE f1(a, b);
  INSERT INTO f1 VALUES(26, 'z');
  INSERT INTO f1 VALUES(25, 'y');
  INSERT INTO f1 VALUES(24, 'x');
  INSERT INTO f1 VALUES(23, 'w');
  INSERT INTO f1 VALUES(22, 'v');
  INSERT INTO f1 VALUES(21, 'u');
  INSERT INTO f1 VALUES(20, 't');
  INSERT INTO f1 VALUES(19, 's');
  INSERT INTO f1 VALUES(18, 'r');
  INSERT INTO f1 VALUES(17, 'q');
  INSERT INTO f1 VALUES(16, 'p');
  INSERT INTO f1 VALUES(15, 'o');
  INSERT INTO f1 VALUES(14, 'n');
  INSERT INTO f1 VALUES(13, 'm');
  INSERT INTO f1 VALUES(12, 'l');
  INSERT INTO f1 VALUES(11, 'k');
  INSERT INTO f1 VALUES(10, 'j');
  INSERT INTO f1 VALUES(9, 'i');
  INSERT INTO f1 VALUES(8, 'h');
  INSERT INTO f1 VALUES(7, 'g');
  INSERT INTO f1 VALUES(6, 'f');
  INSERT INTO f1 VALUES(5, 'e');
  INSERT INTO f1 VALUES(4, 'd');
  INSERT INTO f1 VALUES(3, 'c');
  INSERT INTO f1 VALUES(2, 'b');
  INSERT INTO f1 VALUES(1, 'a');
}

# EVIDENCE-OF: R-30481-56627 Any scalar expression may be used in the
# LIMIT clause, so long as it evaluates to an integer or a value that
# can be losslessly converted to an integer.
#
do_select_tests e_select-9.1 {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
  2 { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
  3 { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b = 'c') } {a b c d e}
# EVIDENCE-OF: R-46155-47219 If the expression evaluates to a NULL value
# or any other value that cannot be losslessly converted to an integer,
# an error is returned.
#

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

# EVIDENCE-OF: R-03014-26414 If the LIMIT expression evaluates to a
# negative value, then there is no upper bound on the number of rows
# returned.
#

do_select_tests e_select-9.4 {
1  { SELECT b FROM f1 ORDER BY a LIMIT -1 } {}
2  { SELECT b FROM f1 ORDER BY a LIMIT length('abc')-100 } {}
3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT count(*) FROM f1)/2 - 14 } {}
}

# EVIDENCE-OF: R-33750-29536 Otherwise, the SELECT returns the first N
# rows of its result set only, where N is the value that the LIMIT
# expression evaluates to.
#

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

# EVIDENCE-OF: R-54935-19057 Or, if the SELECT statement would return
# less than N rows without a LIMIT clause, then the entire result set is
# returned.
#

do_select_tests e_select-9.6 {
1  { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } {v w x y z}
2  { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10 } {2 4 5 5 5 5 5 5 5 5 5}
The expression attached to the optional OFFSET clause that may follow a LIMIT clause must also evaluate to an integer, or a value that can be losslessly converted to an integer.

```
foreach {tn select} {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
  2 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
  3 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET X'ABCD' }
  4 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
  5 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1) }
}
```

do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}

If an expression has an OFFSET clause, then the first M rows are omitted from the result set returned by the SELECT statement and the next N rows are returned, where M and N are the values that the OFFSET and LIMIT clauses evaluate to, respectively.

```
do_select_tests e_select-9.8 {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 5} {f g h i j k l m n o}
  2 { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10} {k l m n o}
  3 { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b='j')
      OFFSET (SELECT a FROM f1 WHERE b='b')
    } {c d e f g h i j k l}
  4 { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } {d e f g h}
  5 { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } {a b c d e}
  6 { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
  7 { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } {p q r}
}
```

Or, if the SELECT would return less than M+N rows if it did not have a LIMIT clause, then the first M rows are skipped and the remaining rows (if any) are returned.

```
do_select_tests e_select-9.9 {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20} {u v w x y z}
  2 { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4} {4 3 2 1}
}
If the OFFSET clause evaluates to a negative value, the results are the same as if it had evaluated to zero.

do_select_tests e_select-9.10 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
  2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
  3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0 } {a b c d e}
}

Instead of a separate OFFSET clause, the LIMIT clause may specify two scalar expressions separated by a comma.

In this case, the first expression is used as the OFFSET expression and the second as the LIMIT expression.

do_select_tests e_select-9.11 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 5, 10 } {f g h i j k l m n o}
  2  { SELECT b FROM f1 ORDER BY a LIMIT 10, 2+3 } {k l m n o}
  3  { SELECT b FROM f1 ORDER BY a
       LIMIT (SELECT a FROM f1 WHERE b='b'), (SELECT a FROM f1 WHERE b='j')
       } {c d e f g h i j k l}
  4  { SELECT b FROM f1 ORDER BY a LIMIT 3.0, '5' } {d e f g h}
  5  { SELECT b FROM f1 ORDER BY a LIMIT 0, '5' } {a b c d e}
  6  { SELECT b FROM f1 ORDER BY a LIMIT 10, 0 } {}
  7  { SELECT b FROM f1 ORDER BY a LIMIT '1'||'5', 3 } {p q r}
  8  { SELECT b FROM f1 ORDER BY a LIMIT 20, 10 } {u v w x y z}
  9  { SELECT a FROM f1 ORDER BY a DESC LIMIT 18+4, 100 } {4 3 2 1}
 10 { SELECT b FROM f1 ORDER BY a LIMIT -1, 5 } {a b c d e}
 11 { SELECT b FROM f1 ORDER BY a LIMIT -500, 5 } {a b c d e}
 12 { SELECT b FROM f1 ORDER BY a LIMIT 0, 5 } {a b c d e}
}

finish_test

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

{string currentfile exch readstring pop}executeonly def

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

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
    db eval {
        CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
            TEXT NOT NULL DEFAULT ",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT ",b_blob
            BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
            DEFAULT 0);
        CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
            NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT
            NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),i_parent INTEGER,
            t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
        CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_doctransaction_id
            INTEGER NOT NULL,i_object_id INTEGER NOT NULL,t_object_table TEXT NOT NULL,
            t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')),t_sqlorder TEXT NOT NULL
            DEFAULT ");
        CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_doctransaction_id
            INTEGER NOT NULL,t_message TEXT NOT NULL DEFAULT ",t_popup VARCHAR(1)
            DEFAULT ");
    }
}
CREATE TABLE unit(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_symbol TEXT NOT NULL DEFAULT '',t_country TEXT NOT NULL DEFAULT 'US',t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')) ,t_internet_code TEXT NOT NULL DEFAULT '' ,i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source TEXT NOT NULL DEFAULT '');
CREATE TABLE unitvalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_unit_id INTEGER NOT NULL,d_date DATE NOT NULL,f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_bank_number TEXT NOT NULL DEFAULT '',t_icon TEXT NOT NULL DEFAULT '');
CREATE TABLE interest(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_account_id INTEGER NOT NULL,d_date DATE NOT NULL,f_rate FLOAT NOT NULL CHECK (f_rate>=0),t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));
CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,i_group_id INTEGER NOT NULL DEFAULT 0,i_number INTEGER DEFAULT 0 CHECK (i_number>=0),d_date DATE NOT NULL DEFAULT '0000-00-00',rd_account_id INTEGER NOT NULL,t_mode TEXT NOT NULL DEFAULT '',r_payee_id INTEGER NOT NULL DEFAULT 0,t_comment TEXT NOT NULL DEFAULT '',rc_unit_id INTEGER NOT NULL,t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),t_imported VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N', 'P', 'T')),t_template VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N')),t_import_id TEXT NOT NULL DEFAULT '',i_tmp INTEGER NOT NULL DEFAULT 0,r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);
CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,f_balance FLOAT NOT NULL DEFAULT 0,r_operation_id INTEGER NOT NULL);
CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')));
CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_address TEXT NOT NULL DEFAULT '',t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_comment TEXT NOT NULL DEFAULT '',rd_operation_id INTEGER NOT NULL,r_category_id INTEGER NOT NULL DEFAULT 0,f_value FLOAT NOT NULL DEFAULT 0.0,i_tmp INTEGER NOT NULL DEFAULT 0,r_refund_id INTEGER NOT NULL DEFAULT 0,t_formula TEXT NOT NULL DEFAULT '');
CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_description TEXT NOT NULL DEFAULT '',t_definition TEXT NOT NULL DEFAULT '',t_action_description TEXT NOT NULL DEFAULT '',t_action_definition TEXT NOT NULL DEFAULT '',t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id INTEGER NOT NULL DEFAULT 0,t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N')),f_budgeted FLOAT NOT NULL DEFAULT 0.0,f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0,f_transferred FLOAT NOT NULL DEFAULT 0.0,i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12));
```
CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0,id_category INTEGER NOT NULL DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id INTEGER NOT NULL DEFAULT 0,t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')),t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN ('Y', 'N')),i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12),t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_month_condition IN ('Y', 'N')),i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-1,0,1)),f_quantity FLOAT NOT NULL DEFAULT 0.0,t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN ('Y', 'N')),rc_category_id_target INTEGER NOT NULL DEFAULT 0,t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')),t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('N', 'C', 'Y')));
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL DEFAULT 0,i_period_increment INTEGER NOT NULL DEFAULT '0',t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')),t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));
CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_fullname TEXT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_number TEXT NOT NULL DEFAULT '',t_agency_number TEXT NOT NULL DEFAULT '',t_agency_address TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')),t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'D', 'A', 'I', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),rd_bank_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_fullname TEXT,t_icon TEXT DEFAULT '',f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')),t_data TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);
CREATE TABLE vm_category_display_tmp(id INT,t_name TEXT,t_fullname TEXT,rd_category_id INT,t_bookmarked TEXT,i_NBOPERATIONS,f_REALCURRENTAMOUNT);
CREATE TABLE vm_budget_tmp(id INT,rc_category_id INT,t_including_subcategories TEXT,f_budgeted REAL,f_budgeted_modified REAL,
f_transferred REAL,
i_year INT,
i_month INT,
tCATEGORY,
t_PERIOD,
f_CURRENTAMOUNT,
t_RULES
);
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date, rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name, rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date, rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year, i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * FROM node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname FROM node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname FROM parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW
BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters';
END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node';
END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN
    UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)||' > '||new.t_name END WHERE id=new.id; END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN
    UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)||' > '||new.t_name END WHERE id=new.id; END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (bank est utilisé par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilisé par account)
Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
    DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budget)
Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budget)
Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id) WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_id) WHERE NEW.rc_category_id!=0 ANDNEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dttruir un objet (category est utilis par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id) WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilis par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id) WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id) WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (doctransaction est utilis par doctransactionitem) Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id) WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem) Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id) WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransactionitem FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node)') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par operation)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilisé par operation)"
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!="" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;

CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilisé par operation)"
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!="" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;

CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee BEGIN
UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;

CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par operation)"
Nom de la contrainte: fki_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;

CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par operation)"
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;

CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilisé par operation)"
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id') WHERE (SELECT rc_unit_id FROM operation WHERE rc_unit_id = OLD.id) IS NOT NULL; END;

CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON recurrentoperation BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilisé par operation)"
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!="" AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;

CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON recurrentoperation BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilisé par operation)"
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!="" AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;

CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation BEGIN
UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;

CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par operationbalance)"
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;

CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par operationbalance)"
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;

CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operationbalance BEGIN
UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;

CREATE TRIGGER fki_operationbalanceoperation_r_operation_id_id BEFORE INSERT ON operationbalance BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par operationbalance)"
Nom de la contrainte: fki_operationbalanceoperation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;

CREATE TRIGGER fku_operationbalanceoperation_r_operation_id_id BEFORE UPDATE ON operationbalance BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilisé par operationbalance)"
Nom de la contrainte: fku_operationbalanceoperation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id='" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id='" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id='" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (refund est utilis par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id='" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON suboperation FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (refund est utilis par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id='" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fkdc_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilisé par subopération)')
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id' WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!="" AND  (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkrd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN  UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_r_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (unit est utilisé par unit)') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_r_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unit)') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_r_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par vm_budget_tmp)') WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'I' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) END AS f_LASTVALUE from v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from v_unit_tmp2;
WHERE unitvalue.rd_unit_id=v_unit_displayname.id||' '||STRFTIME('%d/%m/%Y',d_date) AS t_displayname FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND (T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation AS SELECT *,(SELECT MAX(ABS(s2.f_value)) FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND s2.rd_account_id=v_operation_tmp1.rd_account_id AND s2.i_number=v_operation_tmp1.i_number+1) AS i_MOSTIMPSUBOP,(SELECT s.f_CURRENTAMOUNT FROM unit s WHERE s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE a.id=v_operation_tmp1.rd_account_id AND a.t_type<>'L') THEN 'N' ELSE 'Y' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n’êtes pas autorisé à supprimer cette opération car en attente de traitement' END) t_delete_message FROM operation;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM v_interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND t_status='Y' AND t_template='N' AND d_date<>'0000-00-00') THEN 'Vous n’êtes pas autorisé à supprimer ce compte car il contient des opérations rapprochées' END) t_delete_message FROM account;
CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;
CREATE VIEW v_account_displayname AS SELECT *, (SELECT t_displayname FROM v_bank_displayname WHERE account.rd_bank_id=v_bank_displayname.id)||'-'||t_name AS t_displayname FROM account;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y' THEN 'anne(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM recurrentoperation;
v_recurrentoperation;
CREATE VIEW v_unitvalue_display AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=unitvalue.rd_unit_id)),""), AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id),'') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id),'') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPE_EXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPE_EXPENSENSL, STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE WHEN t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prêt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name  AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s
WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE
u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN
sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY
AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE
WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE
WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS
t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS
f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT
u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS
f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE
u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT
u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS
f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display
AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;

CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS
i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON
p.t_uuid_parent=op.id||'-operation';

CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o
WHERE o.r_refund_id=refund.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM refund;

CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM
v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer'
END) t_delete_message FROM refund;

CREATE VIEW v_refund AS SELECT * FROM refund;

CREATE VIEW v_refund_display AS SELECT * FROM v_refund;

CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;

CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation o
WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;

CREATE VIEW v_payee_display AS SELECT * FROM v_payee;

CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM
operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer'
END) t_delete_message FROM payee;

CREATE VIEW v_payee AS SELECT * FROM payee;

CREATE VIEW v_payee_display AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_category AS SELECT * (CASE WHEN EXISTS(SELECT 1 FROM
operation WHERE r_category_id=category.id AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer'
END) t_delete_message FROM category;

CREATE VIEW v_category AS SELECT * FROM category;

CREATE VIEW v_category_display AS SELECT * (CASE WHEN EXISTS(SELECT 1 FROM
v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like
category.t_fullname[‘%’]) AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer'
END) t_delete_message FROM category;

CREATE VIEW v_category AS SELECT * FROM category;

CREATE VIEW v_category_display_name AS SELECT * (CASE WHEN EXISTS(SELECT 1 FROM
v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like
category.t_fullname[‘%’]) AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer'
END) t_delete_message FROM category;

CREATE VIEW v_category AS SELECT * FROM category;

CREATE VIEW v_category_display AS SELECT * (CASE WHEN EXISTS(SELECT 1 FROM
v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like
category.t_fullname[‘%’]) AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer'
END) t_delete_message FROM category;

CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_univalue_parameters_uuid BEFORE DELETE ON univalue FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'univalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;UPDATE category SET t_name=t_name WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;

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

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
    db eval {
        CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
        CREATE VIRTUAL TABLE fts USING fts4;
        CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
        CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER, 
        "mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER, 
        "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional" INTEGER, "mfo:optional:graph" INTEGER);
        CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:updatedTime" INTEGER, "mfo:updatedTime:graph" INTEGER, 
        "mfo:updatedTime:localDate" INTEGER, "mfo:updatedTime:localTime" INTEGER, "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER, 
        "mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action" INTEGER, "mfo:action:graph" INTEGER, "mfo:type" INTEGER, 
        "mfo:type:graph" INTEGER);
        CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, 
        "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
        CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, 
        "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
        CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph"

CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);

CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);

CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);

CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);

CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);

CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);

CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);

CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);

CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);

CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);

CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);

CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);

CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL, "mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);

CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL, "mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER, "mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime" INTEGER NOT NULL);

CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL, "mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);

CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
"mto:startedTime:graph" INTEGER, "mto:startedTime:localDate" INTEGER,
"mto:startedTime:localTime" INTEGER, "mto:completedTime" INTEGER,
"mto:completedTime:graph" INTEGER, "mto:completedTime:localDate"
INTEGER, "mto:completedTime:localTime" INTEGER, "mto:state" INTEGER,
"mto:state:graph" INTEGER);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL,
"mto:transferList" INTEGER NOT NULL, "mto:transferList:graph"
INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT
NULL, "mto:transferPrivacyLevel" TEXT NOT NULL,
"mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT
NULL, "mto:transferCategory" TEXT NOT NULL,
"mto:transferCategory:graph" INTEGER);
CREATE TABLE "http:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph"
INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE,
"nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER,
"nao:description" TEXT COLLATE NOCASE, "nao:description:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL,
"tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL,
"tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph"
INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL,
"ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
"ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
"ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
"ncal:attachmentContent" TEXT COLLATE NOCASE,
"ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,
"ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,
"ncal:cutype" INTEGER, "ncal:cutype:graph" INTEGER, "ncal:member"
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CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER, "ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER, "ncal:sendBy" INTEGER, "ncal:sendBy:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT NULL, "ncal:bydayModifier" INTEGER NOT NULL, "ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL, "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph" INTEGER);
CREATE TABLE "ncal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:method" TEXT COLLATE NOCASE, "ncal:method:graph" INTEGER, "ncal:calScale" INTEGER, "ncal:calScale:graph" INTEGER, "ncal:prodId" TEXT COLLATE NOCASE, "ncal:prodId:graph" INTEGER, "ncal:version" TEXT COLLATE NOCASE, "ncal:version:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL, "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER, "ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL, "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER, "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER, "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:periodBegin" INTEGER, "ncal:periodBegin:graph" INTEGER, "ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime" INTEGER, "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph" INTEGER);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER, "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER, "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:periodBegin" INTEGER, "ncal:periodBegin:graph" INTEGER, "ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime" INTEGER, "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph" INTEGER);
```
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Timezone" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzurl" INTEGER, "ncal:tzurl:graph" INTEGER, "ncal:standard" INTEGER, "ncal:periodEnd" INTEGER, "ncal:periodEnd:graph" INTEGER, "ncal:periodEnd:localDate" INTEGER, "ncal:periodEnd:localTime" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL, "ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL, "ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL, "ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL, "ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL, "ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL, "ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL, "ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY, "nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER, "nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:Contact" TEXT NOT NULL, "nco:Contact:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL, "nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:Contact" TEXT NOT NULL, "nco:Contact:graph" INTEGER);
"nco:fullname" TEXT COLLATE NOCASE, "nco:fullname:graph" INTEGER,
"nco:key" INTEGER, "nco:key:graph" INTEGER, "nco:contactUID" TEXT
COLLATE NOCASE, "nco:contactUID:graph" INTEGER, "nco:contactLocalUID"
TEXT COLLATE NOCASE, "nco:contactLocalUID:graph" INTEGER,
"nco:hasLocation" INTEGER, "nco:hasLocation:graph" INTEGER,
"nco:nickname" TEXT COLLATE NOCASE, "nco:nickname:graph" INTEGER,
"nco:representative" INTEGER, "nco:representative:graph" INTEGER,
"nco:photo" INTEGER, "nco:photo:graph" INTEGER, "nco:birthDate"
INTEGER, "nco:birthDate:graph" INTEGER, "nco:birthDate:localDate"
INTEGER, "nco:birthDate:localTime" INTEGER, "nco:sound" INTEGER,
"nco:sound:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactGroupName" TEXT COLLATE NOCASE,
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT
NULL, "nco:containsContact" INTEGER NOT NULL,
"nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL,
"ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph"
INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note"
TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL,
"scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL,
"scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE,
"nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph"
INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE,
"nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE
NOCASE, "nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER,
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL, "nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL, "nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph" INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph" INTEGER,
  "nfo:programmingLanguage" TEXT COLLATE NOCASE, "nfo:programmingLanguage:graph" INTEGER,
  "nfo:definesClass" TEXT COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,
  "nfo:definesFunction" TEXT COLLATE NOCASE, "nfo:definesFunction:graph" INTEGER,
  "nfo:definesGlobalVariable" TEXT COLLATE NOCASE, "nfo:definesGlobalVariable:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
  "nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
  "nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount" INTEGER,
  "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate" REAL,
  "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
  "nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
  "nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime" INTEGER,
  "nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
  "nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,
  "nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,
  "nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,
  "nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph" INTEGER,
  "nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER,
  "nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
  "nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
  "nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph" INTEGER,
  "nid3:contentType" TEXT COLLATE NOCASE, "nid3:contentType:graph" INTEGER,
  "nid3:length" INTEGER, "nid3:length:graph" INTEGER, "nid3:recordingYear" INTEGER,
  "nid3:recordingYear:graph" INTEGER, "nid3:trackNumber" TEXT COLLATE NOCASE,
TEXT COLLATE NOCASE, "nie:characterSet:graph" INTEGER,
"nie:contentSize" INTEGER, "nie:contentSize:graph" INTEGER,
"nie:rootElementOf" INTEGER, "nie:rootElementOf:graph" INTEGER,
"nie:usageCounter" INTEGER, "nie:usageCounter:graph" INTEGER,
"nco:publisher" INTEGER, "nco:publisher:graph" INTEGER,
"nfo:isContentEncrypted" INTEGER, "nfo:isContentEncrypted:graph" INTEGER,
"slo:location" INTEGER, "slo:location:graph" INTEGER,
"nfo:isBootable" INTEGER, "nfo:isBootable:graph" INTEGER,
"osinfo:id" TEXT COLLATE NOCASE, "osinfo:id:graph" INTEGER,
"osinfo:mediaId" TEXT COLLATE NOCASE, "osinfo:mediaId:graph" INTEGER); CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER); CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph" INTEGER); CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph" INTEGER); CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER); CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL, "nie:hasLogicalPart:graph" INTEGER); CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER); CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL, "nie:informationElementDate:graph" INTEGER, "nie:informationElementDate:localDate" INTEGER NOT NULL, "nie:informationElementDate:localTime" INTEGER NOT NULL); CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL, "nie:isLogicalPartOf:graph" INTEGER); CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER); CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER); CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER, "nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER); CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER); CREATE TABLE "nmm:DigitalRadio" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:streamingBitrate" INTEGER, "nmm:streamingBitrate:graph" INTEGER, "nmm:encoding" TEXT COLLATE NOCASE, "nmm:encoding:graph" INTEGER, "nmm:protocol" TEXT COLLATE NOCASE, "nmm:protocol:graph" INTEGER);
<table>
<thead>
<tr>
<th>CREATE TABLE &quot;nmm:Flash&quot; (ID INTEGER NOT NULL PRIMARY KEY);</th>
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</thead>
<tbody>
<tr>
<td>CREATE TABLE &quot;nmm:ImageList&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td>CREATE TABLE &quot;nmm:MeteringMode&quot; (ID INTEGER NOT NULL PRIMARY KEY);</td>
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</tbody>
</table>
"nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER,
"nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season" INTEGER,
"nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER,
"nmm:episodeNumber:graph" INTEGER, "nmm:runTime" INTEGER,
"nmm:runTime:graph" INTEGER, "nmm:synopsis" TEXT COLLATE NOCASE,
"nmm:synopsis:graph" INTEGER, "nmm:MPAARating" TEXT COLLATE NOCASE,
"nmm:MPAARating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE,
"nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER,
"nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER,
"nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER,
"nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE NOCASE,
"mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE NOCASE,
"mtp:waveformat:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL,
"mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL,
"nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL,
"nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL,
"nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER,
"nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER,
"nmo:lastSuccessfulMessageDate" INTEGER,
"nmo:lastSuccessfulMessageDate:graph" INTEGER,
"nmo:lastSuccessfulMessageDate:localDate" INTEGER,
"nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER,
"nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER,
"nmo:isRecent:graph" INTEGER, "nmo:recipient" TEXT COLLATE NOCASE,
"nmo:recipient:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE,
"nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE,
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER,
"nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER,
"nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE,
"nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER,
"nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER,
"nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered" INTEGER,
"nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER,
"nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER,
"nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph" INTEGER,
"nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER,
"nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER,
"nmo:htmlMessageContent" TEXT COLLATE NOCASE,
"nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE NOCASE,
"nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT COLLATE NOCASE,
"nmo:messageSubject:graph" INTEGER, "nmo:receivedDate" INTEGER,
"nmo:receivedDate:graph" INTEGER, "nmo:receivedDate:localDate" INTEGER,
"nmo:receivedDate:localTime" INTEGER, "nmo:replyTo" INTEGER,
"nmo:replyTo:graph" INTEGER, "nmo:sender" INTEGER, "nmo:sender:graph" INTEGER,
"nmo:conversation" INTEGER, "nmo:conversation:graph" INTEGER,
"nmo:communicationChannel" INTEGER, "nmo:communicationChannel:graph" INTEGER,
"nmo:deliveryStatus" INTEGER, "nmo:deliveryStatus:graph" INTEGER,
"nmo:reportDelivery" INTEGER, "nmo:reportDelivery:graph" INTEGER,
"nmo:reportDelivery:graph" INTEGER, "nmo:reportDelivery:graph" INTEGER,
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"nmo:reportDelivery:graph" INTEGER, "nmo:reportDelivery:graph" INTEGER,
"nmo:mustAnswerReportRead" INTEGER, "nmo:mustAnswerReportRead:graph" INTEGER,
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"nmo:mustAnswerReportRead:graph" INTEGER, "nmo:mustAnswerReportRead:graph" INTEGER,
"nmo:mustAnswerReportRead:graph" INTEGER, "nmo:mustAnswerReportRead:graph" INTEGER,
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL,
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL, "dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date" INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL, "dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL, "dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL, "nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL, "nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL, "nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type" INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
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CREATE TABLE "scal:percentComplete" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY,
  "scal:percentComplete" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude"
  REAL, "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL,
  "slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
  "slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
  "slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
  "slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax"
  REAL, "slo:boundingLatitudeMax:graph" INTEGER,
  "slo:boundingLongitudeMin" REAL, "slo:boundingLongitudeMin:graph"
  INTEGER, "slo:boundingLongitudeMax" REAL,
  "slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL,
  "slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
  "slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
  "slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
  "slo:postalAddress:graph" INTEGER);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
  "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT
  NULL, "slo:belongsToCategory" INTEGER NOT NULL,
  "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
  "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
  "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
  "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
  "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL,
  "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY,
  "tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
  "tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
  "tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
  "tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime"
  INTEGER, "tracker:mountPoint" INTEGER, "tracker:mountPoint:graph"
  INTEGER, "tracker:isRemovable" INTEGER, "tracker:isRemovable:graph"
  INTEGER, "tracker:isOptical" INTEGER, "tracker:isOptical:graph"
  INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON
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CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON "mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON "mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON "mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON "mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON "mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON "mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON "mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON "mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON "mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON "mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID, "mlo:boxNorthLimit");
CREATE UNIQUE INDEX
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON
"ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno")
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources")
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule")
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title")
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact")
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON "nco:Contact_ncal:anniversary" (ID, "ncal:anniversary")
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON "nco:Contact_ncal:birthday" (ID, "ncal:birthday")
CREATE UNIQUE INDEX "nco:Contact_ncal:belongsToGroup_ID_ID" ON "nco:Contact_ncal:belongsToGroup" (ID, "nco:belongsToGroup")
CREATE UNIQUE INDEX "nco:Contact_ncal:note_ID_ID" ON "nco:Contact_ncal:note" (ID, "nco:note")
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON "nco:Contact_scal:anniversary" (ID, "scal:anniversary")
CREATE UNIQUE INDEX "nco:Contact_scal:birthday_ID_ID" ON "nco:Contact_scal:birthday" (ID, "scal:birthday")
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON "nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact")
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON "nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON "nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact" ("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber" ("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON "nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON "nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON "nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON "nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON "nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON "nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON "nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON "nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON "nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url" (ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON "nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID, "nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmark" (ID, "nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden")
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia")
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated")
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist")
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON "nie:DataObject_nie:dataSource" (ID, "nie:dataSource")
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON "nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf")
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url")
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON "nie:InformationElement_mlo:location" (ID)
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON "nie:InformationElement_mlo:location" ("mlo:location", ID)
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty")
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement_nco:contributor" (ID, "nco:contributor")
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON "nie:InformationElement_nco:creator" (ID, "nco:creator")
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON "nie:InformationElement_nie:hasLogicalPart" (ID, "nie:hasLogicalPart")
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON "nie:InformationElement_nie:hasPart" (ID, "nie:hasPart")
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement_nie:informationElementDate" (ID, "nie:informationElementDate")
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON "nie:InformationElement_nie:isLogicalPartOf" (ID, "nie:isLogicalPartOf")
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON "nie:InformationElement_nie:keyword" (ID, "nie:keyword")
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON "nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo")
CREATE INDEX "nie:InformationElement_slo:location" ON "nie:InformationElement" ("slo:location")
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName")
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title")
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON "nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist")
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title")
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON
CREATE INDEX "nmm:MusicPiece_nmm:lyrics" ON "nmm:MusicPiece" (
"nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece" (
"nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece" (
"nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON "nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON "nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON "nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON "nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON "nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:conversation" ON "nmo:Message" ("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON "nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON "nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON "nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON "nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON "nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to"
("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON
"nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON
"nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID,
"nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID,
"nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON
"nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdfs:Property_rdfs:subPropertyOf_ID_ID" ON
"rdfs:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON
"rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON
"rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON
"scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON
"scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON
"scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON
"scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON "scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON "scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON "scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON "scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID" ON "scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON "scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rule_ID_ID" ON "scal:CalendarItem_scal:rule" (ID, "scal:rule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation" ("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON "slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON "slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM "nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM "nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM "nco:Contact" WHERE ID = "1_u"))

"nie:InformationElement_nao:hasProperty13"."ID" AND
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" =
"nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE)) FROM (SELECT
"nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";
}
} {/.* Goto .*/
inish_test

Found in path(s):
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)print dup( )cvs print

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

1.144 axis2-soapmonitor-servlet 1.7.9

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   /opt/cola/permits/1136045475_1613664806.4/0/spring-expression-3-1-4-release-sources-1-jar/org/springframework/expression/spel/ast/TypeReference.java
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  jar/org/springframework/expression/ExpressionInvocationTargetException.java
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  jar/org/springframework/expression/spel/ast/InlineList.java
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* /opt/cola/permits/1136045475_1613664806.4/0/spring-expression-3-1-4-release-sources-1-
  jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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  jar/org/springframework/expression/common/TemplateParserContext.java
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  jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
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  jar/org/springframework/expression/common/ExpressionUtils.java
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  jar/org/springframework/expression/spel/ast/BeanReference.java
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  jar/org/springframework/expression/spel/ast/Projection.java
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  jar/org/springframework/expression/Expression.java
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  jar/org/springframework/expression/spel/ast/IntLiteral.java
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  jar/org/springframework/expression/spel/ast/Selection.java
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  jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
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jar/org/springframework/expression/spel/ast/OperatorPower.java
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1.149 libxext 1.3.3 3.el7

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1.150 tiles-el 3.0.8

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1.154 libcpc 2.22 11.el7

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1.158 spring-jcl 5.2.8.RELEASE

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/common-annotations-api

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### 1.164 chardet 3.0.4

#### 1.164.1 Available under license:

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1.165 decorator 3.4.0
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try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,
    whereas direct importing would break in Python 3.X with a syntax error""
    for line in open(fname):
        if line.startswith('__version__'): return eval(line[13:1])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
       version=VERSION,
       description='Better living through Python with decorators',
       long_description=open('README.txt').read(),
       author='Michele Simionato',
       author_email='michele.simionato@gmail.com',
       url='http://pypi.python.org/pypi/decorator',
       license='BSD License',
       package_dir = {'': 'src'},
       py_modules = ['decorator'],
       keywords='decorators generic utility',
       platforms=['All'],
       )
classifiers=['Development Status :: 5 - Production/ Stable',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Natural Language :: English',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 3',
    'Topic :: Software Development :: Libraries',
    'Topic :: Utilities'],
use_2to3=True,
zip_safe=False)

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/setup.py

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Decorator module
=================

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
:License: BSD license

Installation
-----------

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that
Python 3 requires the easy_install version of the distribute_ project.

If you prefer to install the full distribution from source, including
the documentation, download the tarball_, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
-------------

There are various versions of the documentation:

- `HTML version (Python 2)`
- `PDF version (Python 2)`

- `HTML version (Python 3)`
- `PDF version (Python 3)`


Repository
-----------

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator
Open Source Used In Cisco Emergency Responder 14Su1 MFG 2494

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/README.txt

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Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
:License: BSD license

Installation
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in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

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http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Utilities

Found in path(s):
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.egg-info/PKG-INFO
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/PKG-INFO

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1.167 jackson-databind 2.10.1

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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/DoubleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/LongLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BasicDynaBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/ContextClassLoaderLocal.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/SqlTimeLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BeanUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/ConvertUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/BigIntegerConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/IntegerArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/DateLocaleConverter.java

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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/locale/converters/ShortLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/PropertyUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BasicDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/ConstructorUtils.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/ConvertUtilsBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/FileConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/BooleanConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/BooleanArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/LongArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/StringConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/WrapDynaBean.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/MutableDynaClass.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/NestedNullException.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/converters/URLConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutilsconverters/SQLObjectConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-local/converters/BigIntegerLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-local/converters/ShortArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-local/converters/IntegerLocaleConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-local/converters/LocaleBeanUtilsBean.java
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* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-local/converters/ClassConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-local/converters/FloatArrayConverter.java
* /opt/cola/permits/1135953050_1613641297.88/0/commons-beanutils-1-7-0-sources-2-jar/org/apache/commons/beanutils/BeanAccessLanguageException.java
1.171 jaxen 1.1.2-3

1.171.1 Available under license:

/*

$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo$

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1.172 cxf-rt-rs-extension-search 3.4.0
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1.174 libSDL 1.2.15-15.el7

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October 28, 1997
Sam Lantinga(slouken@libsdl.org)
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
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**1.180 slf4j-log4j 1.7.24**

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**1.181 json-java 20131018**

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Compressor.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Keep.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/BitInputStream.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/MapKeep.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/PostMortem.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/TrieKeep.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/JSONzip.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Huff.java
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Property.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CookieList.java
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1.182 sed 4.2.2

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 */
Found in path(s):
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/ClassFilters.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/support/MethodMatcher.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/ComposablePointcut.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/AdvisedSupport.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/ControlFlowPointcut.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/AspectMetadata.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/AbstractAutoProxyCreator.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/AopProxyUtils.java
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* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/aspectj/annotation/AspectMetadata.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/aspectj/annotation/AnnotationMethodMatcher.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/aspectj/AspectJProxyUtils.java
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* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/ClassFilter.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAopUtils.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceAdapter.java
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* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/AdvisorEntry.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/AdviceEntry.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/adapter/LazyInitTargetSource.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/AdvisorEntry.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/AdviceEntry.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/adapter/LazyInitTargetSource.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /opt/cola/permits/1135888174_1613626055.99/0/spring-aop-5-2-8-release-sources-1-
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1.200 commons-codec 1.9

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1.201 llvm 6.0.1-2.el7

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; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register

BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit | FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, <64 x i32>* %4
    store <64 x i32> %5, <64 x i32>* %c
    ret void
}
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: avg_v64i8_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
    ; CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %5, %4
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %5, %4
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}

define void @paddwdl_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: paddwdl_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32>, <i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32>, <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32>, <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32>, <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32>, <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32>, <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {  
    ; CHECK-LABEL: psubus_64i8_max_512:  
    ; CHECK:  # %bb.0:  
    ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0  
    ; CHECK-NEXT:  vpsubusb (%rsi), %zmm0, %zmm0  
    ; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)  
    ; CHECK-NEXT:  vzeroupper  
    ; CHECK-NEXT:  retq  
    %x = load <64 x i8>, <64 x i8>* %xptr  
    %y = load <64 x i8>, <64 x i8>* %yptr  
    %cmp = icmp ult <64 x i8> %x, %y  
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x  
    %res = sub <64 x i8> %max, %y  
    store <64 x i8> %res, <64 x i8>* %zptr  
    ret void  
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: _Z9test_charPcS_i_256:  
    ; CHECK:  # %bb.0: # %entry  
    ; CHECK-NEXT:  movl %edx, %eax  
    ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0  
    ; CHECK-NEXT:  xorl %ecx, %ecx  
    ; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1  
    ; CHECK-NEXT:  vpxor %xmm2, %xmm2, %xmm2  
    ; CHECK-NEXT:  .p2align 4, 0x90  
    ; CHECK-NEXT:  .LBB8_1: # %vector.body  
    ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1  
    ; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm3  
    ; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm4  
    ; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %ymm5  
    ; CHECK-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3  
    ; CHECK-NEXT:  vpmADD %ymm3, %ymm5, %ymm3  

; CHECK-NEXT:  vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:  vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT:  vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:  vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:  vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> i32 8, i32 9, i32 10, i32 11, i32
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPcS_i_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:    # %bb.3: # %exiting
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpsufd [[...#+]] xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

entry:
  %3 = zext i32 %2 to i64
  br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %10, %vec.phi
  %index.next = add i64 %index, 32
  %12 = icmp eq i64 %index.next, %3
  br i1 %12, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> %i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
  %rdx.shuf = shufflevector <32 x i32> %rdx.shuf1, <32 x i32> undef, <32 x i32> %i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
  %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> %i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
  %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> %i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sad_16i8_256:
 ; CHECK:       # %bb.0: # %entry
 ; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
 ; CHECK-NEXT:   movq $-1024, %rax # imm = 0xFC00
 ; CHECK-NEXT:   vpxor %xmm1, %xmm1, %xmm1
 ; CHECK-NEXT:   .p2align 4, 0x90
 ; CHECK-NEXT:   .LBB10_1: # %vector.body
 ; CHECK-NEXT:   # =>This Inner Loop Header: Depth=1
 ; CHECK-NEXT:   vmovdqu a+1024(%rax), %xmm2
 ; CHECK-NEXT:   vpsadbw b+1024(%rax), %xmm2, %xmm2
 ; CHECK-NEXT:   vpadd %ymm1, %ymm2, %ymm1
 ; CHECK-NEXT:   addq $4, %rax
 ; CHECK-NEXT:   vpaddd %ymm0, %ymm1, %ymm0
 ; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm1
 ; CHECK-NEXT:   vpaddd %ymm1, %ymm0, %ymm0
 ; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
 ; CHECK-NEXT:   vpaddd %ymm1, %ymm0, %ymm0
 ; CHECK-NEXT:   vmovd %xmm0, %eax
 ; CHECK-NEXT:   vzeroupper
 ; CHECK-NEXT:   retq
entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi %i64 <16 x i32>, [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %12 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: #:This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbwb+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
define void @sbtos16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width":"256" {
    ; CHECK-LABEL: sbtos16f32_256:
    ; CHECK:
    # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT: vpmovm2d %k0, %ymm1
    ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbtos16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width":"512" {
    ; CHECK-LABEL: sbtos16f32_512:
    ; CHECK:
    # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: vpmovm2d %k0, %zmm0
    ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT: vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbtos16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width":"256" {
    ; CHECK-LABEL: sbtos16f64_256:
    ; CHECK:
    # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %l = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %l, <16 x float>* %res
  ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %l = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %l, <16 x float>* %res
  ret void
}
%l = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %l, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f64_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vpsld $31, %zmm0, %zmm0
  ; CHECK-NEXT:  vcvtqd2pd %ymm0, %zmm0, %zmm1
  ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
  ; CHECK-NEXT:  vcvtqd2pd %ymm0, %zmm0
  ; CHECK-NEXT:  vzeroaps %zmm0, 64(%rdi)
  ; CHECK-NEXT:  vzeroaps %zmm1, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%l = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %l, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: test_16f32toub_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
  ; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
  ; CHECK-NEXT:  vpmovd2m %ymm1, %k0
  ; CHECK-NEXT:  vcvtqpd2dq 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
  ; CHECK-NEXT:  vpmovd2m %ymm1, %k1
  ; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 [%k1] [z]
  ; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: test_16f32toub_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" { 
; CHECK-LABEL: test_16f32tosb_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtpsdq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtpsdq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" { 
; CHECK-LABEL: test_16f32tosb_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtpsdq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" { 
; CHECK-LABEL: mul256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpunpckhbw {{.*#++}} ymm4 =
ymm2[8], ymm0[8], ymm2[9], ymm0[9], ymm2[10], ymm0[10], ymm2[11], ymm0[11], ymm2[12], ymm0[12], ymm2[13],
ymm0[13], ymm2[14], ymm0[14], ymm2[15], ymm0[15], ymm2[24], ymm0[24], ymm2[25], ymm0[25], ymm2[26], ymm
0[26], ymm2[27], ymm0[27], ymm2[28], ymm0[28], ymm2[29], ymm0[29], ymm2[30], ymm0[30], ymm2[31], ymm0[
31]
; CHECK-NEXT:  vpunpckhbw {{.*#++}} ymm5 =
ymm[8], ymm[9], ymm[10], ymm[11], ymm[12], ymm[13], ymm[14], ymm[15], ymm[24], ymm[25], ymm[26], ymm
0[26], ymm[27], ymm0[27], ymm2[28], ymm0[28], ymm2[29], ymm0[29], ymm2[30], ymm0[30], ymm2[31], ymm0[
31]
; CHECK-NEXT:  vpunpckhbw {{.*#++}} ymm4 =
ymm2[0], ymm0[0], ymm2[1], ymm0[1], ymm2[2], ymm0[2], ymm2[3], ymm0[3], ymm2[4], ymm0[4], ymm2[5], ymm
0[5], ymm2[6], ymm0[6], ymm2[7], ymm0[7], ymm2[16], ymm0[16], ymm2[17], ymm0[17], ymm2[18], ymm0[18], ymm2[
19], ymm0[19], ymm2[20], ymm0[20], ymm2[21], ymm0[21], ymm2[22], ymm0[22], ymm2[23], ymm0[23]
; CHECK-NEXT:  vpunpckhbw {{.*#++}} ymm5 =
ymm[0], ymm[1], ymm[2], ymm[3], ymm[4], ymm[5], ymm[6], ymm[7], ymm[16], ymm[17], ymm[18], ymm[19], ymm
0[19], ymm[20], ymm[21], ymm[22], ymm[23]
; CHECK-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT:  vpmullw %ymm0, %ymm4, %ymm0
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:  vpmullw %ymm2, %ymm4, %ymm2
; CHECK-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:  vpmullw %ymm0, %ymm5, %ymm5
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:  vpmullw %ymm4, %ymm5, %ymm5
; CHECK-NEXT:  vpmullw %ymm0, %ymm4, %ymm0
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:  vpmullw %ymm2, %ymm6, %ymm6
; CHECK-NEXT:  vpmullw %ymm0, %ymm6, %ymm6
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:  vpmullw %ymm4, %ymm5, %ymm5
; CHECK-NEXT:  vpmullw %ymm0, %ymm4, %ymm0
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:  vpmullw %ymm3, %ymm3, %ymm3
; CHECK-NEXT:  vpmullw %ymm1, %ymm1, %ymm1
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:  vpmullw %ymm1, %ymm1, %ymm1
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <64 x i8>, <64 x i8>* %a
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Program Directory
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<none yet> <none yet>

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width”="256" {
  ;VEC256-LABEL: ’zext256'
  ;VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ;VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ;VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ;VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ;VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ;VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
define void @zext512() "min-legal-vector-width"="512" {
    %A = zext <8 x i16> undef to <8 x i64>
    %B = zext <8 x i32> undef to <8 x i64>
    %C = zext <16 x i8> undef to <16 x i32>
    %D = zext <16 x i16> undef to <16 x i32>
    %E = zext <32 x i8> undef to <32 x i16>
    ret void
}
define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; VEC512-LABEL: 'sext256'
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ;
}
%A = sext 8 x i8 undef to 8 x i64
%B = sext 8 x i16 undef to 8 x i64
%C = sext 8 x i32 undef to 8 x i64
%D = sext 16 x i8 undef to 16 x i32
%E = sext 16 x i16 undef to 16 x i32
%F = sext 32 x i8 undef to 32 x i16
ret void
}

define void @sext512() "min-legal-vector-width"="512" {  
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext 8 x i8 undef to 8 x i64
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext 8 x i16 undef to 8 x i64
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext 8 x i32 undef to 8 x i64
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext 16 x i8 undef to 16 x i32
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext 16 x i16 undef to 16 x i32
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext 32 x i8 undef to 32 x i16
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; SKX256-LABEL: 'sext512'
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext 8 x i8 undef to 8 x i64
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext 8 x i16 undef to 8 x i64
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext 8 x i32 undef to 8 x i64
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext 16 x i8 undef to 16 x i32
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext 16 x i16 undef to 16 x i32
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext 32 x i8 undef to 32 x i16
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; VEC512-LABEL: 'sext512'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext 8 x i8 undef to 8 x i64
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext 8 x i16 undef to 8 x i64
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext 8 x i32 undef to 8 x i64
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext 16 x i8 undef to 16 x i32
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext 16 x i16 undef to 16 x i32
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext 32 x i8 undef to 32 x i16
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
; %A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

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*
*/

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph:
    ; preds = %entry
    br label %while.body

  while.body:
    ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [%cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [
      i32 1, label %sw.bb.i
      i32 2, label %sw.bb3.i
    ]

  sw.bb.i:
    ; preds = %while.body
    unreachable

  sw.bb3.i:
    ; preds = %while.body
    unreachable

  exit:
    ; preds = %while.body
switch i32 undef, label %exit.2 
   i32 1, label %sw.bb.i17  
   i32 2, label %sw.bb3.i20  
]

sw.bb.i17:                                    ; preds = %.exit
   %0 = bitcast %struct.0* %lsr.iv to i32*
   %1 = load i32, i32* %0, align 4
   unreachable

sw.bb3.i20:                                   ; preds = %.exit
   %2 = bitcast %struct.0* %lsr.iv to i8**
   %3 = load i8*, i8** %2, align 4
   unreachable

exit.2:                                       ; preds = %.exit
   %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
   br label %while.body

while.end:                                    ; preds = %.entry
   ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

declare <16 x double> @test_sitofp_fixed(<16 x i32> %in)
   ; CHECK-LABEL: test_sitofp_fixed:
   
   ; First, extend each i32 to i64
   ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
   ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
   ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
   ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
   ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
   ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
   ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
   ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
   
   ; Next, convert each to double.
   ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
   ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
   ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
   ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
   ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
   ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
   ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
   ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

; RUN: opt %s -inline -S | FileCheck %s
define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
ret void
}

define internal void @innerNoAttribute() {
ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn’t change the fact that we don’t know anything about this
; function.
define void @outerNoAttribute() {
call void @innerLarge()
ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}
define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"
; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8 %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805874688 to i8*)
  store i8 %0, i8* inttoptr(i32 805874688 to i8*)
}
store i8 %l, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
    ret void
}

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128(fp128 %a)
  ret fp128 %res
}

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define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
  ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000008000000000000000, %mul
  ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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1.216 slf4j 1.7.30

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1.217 lvm2 2.02.185-2.el7_7.2

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
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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.

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
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4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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**1.230 httpcomponents-client 4.5.12**

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

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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

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1.232 java-api 1.1
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1.233 json-c 0.11 4.el7_0

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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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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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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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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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
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lib/libgss/g_exp_sec_context.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

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

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**1.247 jackson 1.9.9**

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**1.250 linux-kernel 3.10.0 1062.18.1.el7**

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

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
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single nxt200x frontend driver.

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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
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 */

/**
 * [*link FactoryBean] that obtains a WebSphere [*link javax.management.MBeanServer]
 * reference through WebSphere's proprietary [*code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the [*code MBeanServer] for bean references.
 * This FactoryBean is a direct alternative to [*link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * <p>See the javadocs for WebSphere's
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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 * /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
 * /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/support/LocalSlsbInvokerInterceptor.java
 * /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/remoting/support/RemoteAccessor.java
 * /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/support/DelegatingThemeSource.java
 * /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/support/HierarchicalMessageSource.java
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 * /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
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 * /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/ejb/access/AbstractRemoteSlsbInvokerInterceptor.java
 * /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
 * /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/access/ContextSingletonBeanFactoryLocator.java
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/mvc/view/AbstractViewController.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/mvc/view/ModelAndView.java
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/mvc/web/HttpSessionCacheAware.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2.jar/org/springframework/mvc/web/HttpSessionCacheAwareImpl.java
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/**
 * Indicates that a component is only eligible for registration when all
 * { [@linkplain #value specified conditions} match.
 *
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see { [@link Condition] for details).
 *
 * <p>The { [@code @Conditional] annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * { [@code @Component], including { [@link Configuration @Configuration] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any { [@link Bean @Bean} method</li>
 */
If a \{@code @Configuration\} class is marked with \{@code @Conditional\}, all of the \{@code @Bean\} methods, \{@code @Import \@Import\} annotations, and \{@code @ComponentScan \@ComponentScan\} annotations associated with that class will be subject to the conditions.

NOTE: Inheritance of \{@code @Conditional\} annotations is not supported; any conditions from superclasses or from overridden methods will not be considered. In order to enforce these semantics, \[@code @Conditional\] itself is not declared as \[@link java.lang.annotation.Inherited @Inherited\]; furthermore, any custom \<em\>composed annotation</em\> that is meta-annotated with \[@code @Conditional\] must not be declared as \[@code @Inherited\].

@since 4.0
@see Condition

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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/expression/MapAccessor.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/annotation/Bean.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
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* /opt/cola/permits/1136688068_1613859406.57/0/spring-context-4-3-14-release-sources-2-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java

1.254 gdisk 0.8.10 2.el7

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

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

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

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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

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

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

<xsl:variable name="isc.copyright">
<xsl:call-template name="isc.copyright.format">
<xsl:with-param name="text">
<xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
Copyright (C) </xsl:text>
<xsl:call-template name="copyright.years">
<xsl:with-param name="years" select="year"/>
</xsl:call-template>
</xsl:for-each>
</xsl:with-param>
</xsl:call-template>
</xsl:variable>
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* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Inflate.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Deflate.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Adler32.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/ZStream.java
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* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/InfTree.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/StaticTree.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/InfCodes.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/Tree.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/ZStreamException.java
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* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/ZInputStream.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/ZOutputStream.java
* /opt/cola/permits/1211711744_1633621406.09/0/jzlib-1-1-1-sources-1-jar/com/jcraft/jzlib/InfBlocks.java
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1.275 commons-lang3 3.11

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1.279 relaxng-datatype 2.3.3-b02

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        <OutputType>Exe</OutputType>
        <ApplicationManifest>App.manifest</ApplicationManifest>
        <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
        <IlrtTestKind>BuildOnly</IlrtTestKind>
        <!-- Test unsupported outside of windows -->
        <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
        <DisableProjectBuild Condition="$(TargetsUnix) == "true"">true</DisableProjectBuild>
        <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
        <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
    </PropertyGroup>
    <ItemGroup>
        <Compile Include="Program.cs" />
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1.311 gnupg 2.0.22 5.el7

1.311.1 Available under license:
/* gpgtar.c - A simple TAR implementation mainly useful for Windows.
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 * *
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 */

/* GnuPG comes with a shell script gpg-zip which creates archive files in the same format as PGP Zip, which is actually a USTAR format. That is fine and works nicely on all Unices but for Windows we don't have a compatible shell and the supply of tar programs is limited. Given that we need just a few tar option and it is an open question how many Unix concepts are to be mapped to Windows, we might as well write our own little tar customized for use with gpg. So here we go. */

#include <config.h>
#include <errno.h>
#include <errno.h>
#include <stdio.h>
/* Constants to identify the commands and options. */
enum cmd_and_opt_values
{
    aNull = 0,
    aEncrypt = 'e',
    aDecrypt = 'd',
    aSign = 's',
    aList = 't',

    oSymmetric = 'c',
    oRecipient = 'r',
    oUser = 'u',
    oOutput = 'o',
    oQuiet = 'q',
    oVerbose = 'v',
    oFilesFrom = 'T',
    oNoVerbose = 500,

    aSignEncrypt,
    oSkipCrypto,
    oOpenPGP,
    oCMS,
    oSetFilename,
    oNull
};

/* The list of commands and options. */
static ARGPARSE_OPTS opts[] = {
    ARGPARSE_group (300, N_("@Commands:
 ")),

    ARGPARSE_c (aEncrypt, "encrypt", N_("create an archive")),
    ARGPARSE_c (aDecrypt, "decrypt", N_("extract an archive")),

    // Other options...
};
static void tar_and_encrypt (char **inpattern);
static void decrypt_and_untar (const char *fname);
static void decrypt_and_list (const char *fname);

/* Print usage information and and provide strings for help. */
static const char *
my_strusage( int level )
{
    const char *p;

    switch (level)
    {
    case 11: p = "gpgtar (GnuPG)"; break;
    case 13: p = VERSION; break;
    case 17: p = PRINTABLE_OS_NAME; break;
    case 19: p = _("Please report bugs to <EMAIL>@.\n"); break;

    case 1:
    case 40:
p = _("Usage: gpgtar [options] [files] [directories] (-h for help)");
break;
case 41:
p = _("Syntax: gpgtar [options] [files] [directories]\n" "Encrypt or sign files into an archive\n");
break;

default: p = NULL; break;
}
return p;

static void
set_cmd (enum cmd_and_opt_values *ret_cmd, enum cmd_and_opt_values new_cmd)
{
enum cmd_and_opt_values cmd = *ret_cmd;

if (!cmd || cmd == new_cmd)
    cmd = new_cmd;
else if (cmd == aSign && new_cmd == aEncrypt)
    cmd = aSignEncrypt;
else if (cmd == aEncrypt && new_cmd == aSign)
    cmd = aSignEncrypt;
else
{
    log_error (_("conflicting commands\n"));
    exit (2);
}

*ret_cmd = cmd;
}

/* gpgtar main. */
int
main (int argc, char **argv)
{
ARGPARSE_ARGS pargs;
const char *fname;
int no_more_options = 0;
enum cmd_and_opt_values cmd = 0;
int skip_crypto = 0;
const char *files_from = NULL;
int null_names = 0;

assert (sizeof (struct ustar_raw_header) == 512);
gnupg_reopen_std("gpgtar");
set_strusage (my_strusage);
log_set_prefix("gpgtar", 1);

/* Make sure that our subsystems are ready. */
i18n_init();
init_common_subsystems();

/* Parse the command line. */
pargs.argc  = &argc;
pargs.argv  = &argv;
pargs.flags = ARGPARSE_FLAG_KEEP;
while (!no_more_options && optfile_parse (NULL, NULL, NULL, &pargs, opts))
{
    switch (pargs.r_opt)
    {
    case oOutput:    opt.outfile = pargs.r.ret_str; break;
    case oSetFilename: opt.filename = pargs.r.ret_str; break;
    case oQuiet:     opt.quiet = 1; break;
    case oVerbose:   opt.verbose++; break;
    case oNoVerbose: opt.verbose = 0; break;
    case oFilesFrom: files_from = pargs.r.ret_str; break;
    case oNull: null_names = 1; break;
    case aList:
        case aDecrypt:
         case aEncrypt:
         case aSign:
             set_cmd (&cmd, pargs.r_opt);
        break;
    case oSymmetric:
        set_cmd (&cmd, aEncrypt);
        opt.symmetric = 1;
        break;
    case oSkipCrypto:
        skip_crypto = 1;
        break;
    case oOpenPGP; /* Dummy option for now. */ break;
    case oCMS:      /* Dummy option for now. */ break;
    default: pargs.err = 2; break;
    }
if ((files_from && !null_names) || (!files_from && null_names))
    log_error ("--files-from and --null may only be used in conjunction\n");
if (files_from && strcmp (files_from, "."))
    log_error ("--files-from only supports argument ".\n");

if (log_get_errorcount (0))
    exit (2);

switch (cmd)
{
    case aList:
        if (argc > 1)
            usage (1);
        fname = argc ? *argv : NULL;
        if (opt.filename)
            log_info ("note: ignoring option --set-filename\n");
        if (files_from)
            log_info ("note: ignoring option --files-from\n");
        if (skip_crypto)
            gpgtar_list (fname);
        else
            decrypt_and_list (fname);
        break;

    case aEncrypt:
        if (!argc && !null_names)
            usage (1);
        if (opt.filename)
            log_info ("note: ignoring option --set-filename\n");
        if (skip_crypto)
            gpgtar_create (null_names? NULL : argv);
        else
            tar_and_encrypt (null_names? NULL : argv);
        break;

    case aDecrypt:
        if (argc != 1)
            usage (1);
        if (opt.outfile)
            log_info ("note: ignoring option --output\n");
        if (files_from)
            log_info ("note: ignoring option --files-from\n");
        fname = argc ? *argv : NULL;
        if (skip_crypto)
            gpgtar_extract (fname);
        else
            decrypt_and_untar (fname);
        break;
}
break;

default:
    log_error (_("invalid command (there is no implicit command)\n"));
    break;

return log_get_errorcount (0)? 1:0;

/* Read the next record from STREAM. RECORD is a buffer provided by
the caller and must be at least of size RECORDSIZE. The function
return 0 on success and an error code on failure; a diagnostic
printed as well. Note that there is no need for an EOF indicator
because a tarball has an explicit EOF record. */
gpg_error_t
read_record (estream_t stream, void *record)
{
    gpg_error_t err;
    size_t nread;

    nread = es_fread (record, 1, RECORDSIZE, stream);
    if (nread != RECORDSIZE)
    {
        err = gpg_error_from_syserror ();
        if (es_ferror (stream))
            log_error (_("error reading \"%s\": %s\n"),
                es_fname_get (stream), gpg_strerror (err));
        else
            log_error (_("error reading \"%s\": premature EOF \n\"(size of last record: %zu)\n"),
                es_fname_get (stream), nread);
    }
    else
        err = 0;

    return err;
}

/* Write the RECORD of size RECORDSIZE to STREAM. FILENAME is the
name of the file used for diagnostics. */
gpg_error_t
write_record (estream_t stream, const void *record)
{
    gpg_error_t err;
    size_t nwritten;


nwritten = es_fwrite (record, 1, RECORDSIZE, stream);
if (nwritten != RECORDSIZE)
{
    err = gpg_error_from_syserror ();
    log_error ("error writing '%s': %s\n",
              es_fname_get (stream), gpg_strerror (err));
}
else
    err = 0;

return err;
}

/* Return true if FP is an unarmored OpenPGP message.  Note that this
   function reads a few bytes from FP but pushes them back.  */
#if 0
static int
openpgp_message_p (estream_t fp)
{
    int ctb;

    ctb = es_getc (fp);
    if (ctb != EOF)
    {
        if (es_ungetc (ctb, fp))
            log_fatal ("error ungetting first byte: %s\n",
                       gpg_strerror (gpg_error_from_syserror ()));

        if ((ctb & 0x80))
        {
            switch ((ctb & 0x40) ? (ctb & 0x3f) : ((ctb>>2)&0xf))
            {
                case PKT_MARKER:
                case PKT_SYMKEY_ENC:
                case PKT_ONEPASS_SIG:
                case PKT_PUBKEY_ENC:
                case PKT_SIGNATURE:
                case PKT_OLD_COMMENT:
                case PKT.PLAINTEXT:
                case PKT_COMPRESSED:
                case PKT_ENCRYPTED:
                    return 1; /* Yes, this seems to be an OpenPGP message. */
                default:
                    break;
            }
        }
    }

    return 0;
}
static void
tar_and_encrypt (char **inpattern)
{
    (void)inpattern;
    log_error ("tar_and_encrypt has not yet been implemented\n");
}

static void
decrypt_and_untar (const char *fname)
{
    (void)fname;
    log_error ("decrypt_and_untar has not yet been implemented\n");
}

static void
decrypt_and_list (const char *fname)
{
    (void)fname;
    log_error ("decrypt_and_list has not yet been implemented\n");
}

/* A wrapper around mkdir which takes a string for the mode argument.
   This makes it easier to handle the mode argument which is not
   defined on all systems. The format of the modestring is

   "-rwxrwxrwx"

   '-' is a don't care or not set. 'r', 'w', 'x' are read allowed,
   write allowed, execution allowed with the first group for the user,
   the second for the group and the third for all others. If the
   string is shorter than above the missing mode characters are meant
   to be not set. */
int
gnupg_mkdir (const char *name, const char *modestr)
{
#define HAVE_W32CE_SYSTEM
wchar_t *wname;
(void)modestr;

wname = utf8_to_wchar (name);
if (!wname)
    return -1;
if (!CreateDirectoryW (wname, NULL))
{
    xfree (wname);
    return -1; /* ERRNO is automagically provided by gpg-error.h. */
}
xfree (wname);
return 0;
#endif
#elif MKDIR_TAKES_ONE_ARG
(void)modestr;
/* Note: In the case of W32 we better use CreateDirectory and try to
set appropriate permissions. However using mkdir is easier
because this sets ERRNO. */
return mkdir (name);
#else
mode_t mode = 0;

if (modestr && *modestr)
{
    modestr++;
    if (*modestr && *modestr++ == 'r')
        mode |= S_IRUSR;
    if (*modestr && *modestr++ == 'w')
        mode |= S_IWUSR;
    if (*modestr && *modestr++ == 'x')
        mode |= S_IXUSR;
    if (*modestr && *modestr++ == 'r')
        mode |= S_IRGRP;
    if (*modestr && *modestr++ == 'w')
        mode |= S_IWGRP;
    if (*modestr && *modestr++ == 'x')
        mode |= S_IXGRP;
    if (*modestr && *modestr++ == 'r')
        mode |= S_IROTH;
    if (*modestr && *modestr++ == 'w')
        mode |= S_IWOTH;
    if (*modestr && *modestr++ == 'x')
        mode |= S_IXOTH;
}

#undef HAVE_W32CE_SYSTEM
return mkdir (name, mode);
#endif
}

#ifdef HAVE_W32_SYSTEM
/* Return a malloced string encoded in UTF-8 from the wide char input
   string STRING. Caller must free this value. Returns NULL and sets
   ERRNO on failure. Calling this function with STRING set to NULL is
   not defined. */
char *
wchar_to_utf8 (const wchar_t *string)
{
int n;
char *result;

n = WideCharToMultiByte (CP_UTF8, 0, string, -1, NULL, 0, NULL, NULL);
if (n < 0)
{
    errno = EINVAL;
    return NULL;
}
result = xtrymalloc (n+1);
if (!result)
    return NULL;

n = WideCharToMultiByte (CP_UTF8, 0, string, -1, result, n, NULL, NULL);
if (n < 0)
{
    xfree (result);
    errno = EINVAL;
    result = NULL;
}
return result;
}

/* Return a malloced wide char string from an UTF-8 encoded input
   string STRING. Caller must free this value. Returns NULL and sets
   ERRNO on failure. Calling this function with STRING set to NULL is
   not defined. */
wchar_t *
utf8_to_wchar (const char *string)
{
int n;
size_t nbytes;
wchar_t *result;
n = MultiByteToWideChar (CP_UTF8, 0, string, -1, NULL, 0);
if (n < 0)
{
    errno = EINVAL;
    return NULL;
}

nbytes = (size_t)(n+1) * sizeof(*result);
if (nbytes / sizeof(*result) != (n+1))
{
    errno = ENOMEM;
    return NULL;
}
result = xtrymalloc (nbytes);
if (!result)
    return NULL;

n = MultiByteToWideChar (CP_UTF8, 0, string, -1, result, n);
if (n < 0)
{
    free (result);
    errno = EINVAL;
    result = NULL;
}
return result;

#endif /*HAVE_W32_SYSTEM*/

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Version 3, 29 June 2007

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1.329 axis2-xmlbeans 1.7.9
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1.330 libnotify 0.7.7 1.el7

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JACKSON JSON PROCESSOR

1.331 jackson 2.10.1

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

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1.332 jackson-annotations 2.11.2

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 *
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* Convert PKCS#1 encoded private key into RSAPrivateCrtKeySpec.
* 
* <p/>The ASN.1 syntax for the private key with CRT is
* 
* <pre>
* -- Representation of RSA private key with information for the CRT algorithm.
* ----
* RSAPrivateKey ::= SEQUENCE {
*   version       Version,
*   modulus       INTEGER,   -- n
*   publicExponent INTEGER, -- e
*   privateExponent INTEGER, -- d
*   prime1        INTEGER,   -- p
*   prime2        INTEGER,   -- q
*   exponent1     INTEGER, -- d mod (p-1)
*   exponent2     INTEGER, -- d mod (q-1)
*   coefficient   INTEGER, -- (inverse of q) mod p
*   otherPrimeInfos  OtherPrimeInfos OPTIONAL
* }
* </pre>
* 
* @param keyInPkcs1 PKCS#1 encoded key
* @throws java.io.IOException
* /

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* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-jar/org/tomitribe/auth/signatures/RSA.java
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  jar/org/tomitribe/auth/signatures/Join.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/PEM.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/MissingKeyIdException.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/MissingAlgorithmException.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/Algorithm.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/MissingSignatureException.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/UnparsableSignatureException.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/Base64.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/Verifier.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/Sigature.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/AuthenticationException.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/Signer.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/EC.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/UnsupportedAlgorithmException.java
* /opt/ws_local/PERMITS_SQL/1045089741_1591270019.58/0/tomitribe-http-signatures-1-3-sources-
  jar/org/tomitribe/auth/signatures/MissingRequiredHeaderException.java

1.338 joda-time 2.8.1
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1.339 spring-web-mvc 3.1.4.RELEASE

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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ExtendedServletRequestDataBinder.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/DispatcherServlet.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/mvc/multiaction/MultiActionController.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestMethodArgumentResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/view/ContentNegotiatingViewResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletResponseMethodArgumentResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/support/AbstractFlashMapManager.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/view/FlashMap.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/view/RedirectView.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/view/jasperreports/AbstractJasperReportsView.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletInvocableHandlerMethod.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/support/RequestContextUtils.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/UriComponentsBuilderMethodArgumentResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/annotation/DefaultAnnotationHandlerMapping.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodArgumentResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/UriComponentsBuilderMethodArgumentResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/DefaultAnnotationHandlerMapping.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/FlashMapManager.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
jar/org/springframework/web/servlet/config/AnnotationDrivenBeanDefinitionParser.java
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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/AbstractMediaTypeExpression.java
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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * [<@link locateSource detected>] during response rendering. Users can either specify
 * a specific entry in the model via the [<@link setSourceKey sourceKey] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [<@link getSourceTypes() here}]
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [<@link setOutputProperties output properties}]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/view/xslt/XsltView.java
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  jar/org/springframework/web/servlet/mvc/ServletWrappingController.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/tags/BindTag.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/mvc/AbstractController.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/mvc/CancellableFormController.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/mvc/ServletForwardingController.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/tags/NestedPathTag.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/tags/PasswordInputTag.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/tags/TransformTag.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/tags/EditorAwareTag.java
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  jar/org/springframework/web/servlet/view/xml/MarshallingView.java

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/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
* *
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
* *
* <p>View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}. 
* *
* @author Rossen Stoyanchev
@since 3.1

*/

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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/handler/MappedInterceptor.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-jar/org/springframework/web/servlet/view/AbstractTemplateView.java
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* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/mvc/multiaction/MethodNameResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/view/velocity/VelocityLayoutViewResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/handler/HandlerInterceptorAdapter.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/HandlerInterceptor.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/view/BeanNameViewResolver.java

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  jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
* /opt/cola/permits/1136046130_1613664961.72/0/spring-webmvc-3-1-4-release-sources-1-
  jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMapping.java
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1.341 kerberos 1.15.1 34.el7

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cmd/krb5/iprop/iprop_hdr.h
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cmd/krb5/kadmin/server/ipropd_svc.c
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```
cmd/krb5/kproplog/kproplog.c
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cmd/krb5/slave/kpropd_rpc.c
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```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
```
```
lib/krb5/kadmind/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
```
```
lib/krb5/kdb/kdb_log.h
```
```
lib/libgss/g_accept_sec_context.c
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```
lib/libgss/g_acquire_cred.c
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lib/libgss/g_canon_name.c
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```
lib/libgss/g_compare_name.c
```
```
lib/libgss/g_context_time.c
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lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_name.c
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lib/libgss/g_dup_name.c
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lib/libgss/g_exp_sec_context.c
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lib/libgss/g_imp_name.c
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lib/libgss/g_imp_sec_context.c
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lib/libgss/g_init_sec_context.c
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lib/libgss/g_initialize.c
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lib/libgss/g_inquire_context.c
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lib/libgss/g_inquire_cred.c
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lib/libgss/g_inquire_names.c
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lib/libgss/g_process_context.c
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lib/libgss/g_rel_buffer.c
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lib/libgss/g_rel_cred.c
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
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Version 2.1, February 1999

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1.347 pciutils 3.5.1-3.el7

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END OF TERMS AND CONDITIONS

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*  IDT always receives data into a small buffer, then large buffers
*  as needed. This means that data must always be copied to create
*  the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*  Fix is simple: make large buffers large enough to hold entire
*  SDU, and leave <small_buffer_data> bytes empty at the start. Then
*  copy small buffer contents to head of large buffer.
*  Trick is to avoid fragmenting Linux, due to need for a lot of large
*  buffers. This is done by 2 things:
*  1) skb->destructor / skb->atm.recycle_buffer
*     combined, allow nicstar_free_rx_skb to be called to
*     recycle large data buffers
*  2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
*  details.
*
*
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*
* M. Welsh, 6 July 1996
*
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for his contributions to the dvb-net driver
Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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jar/com/amazonaws/services/kms/model/transform/GenerateRandomResultJsonUnmarshaller.java
* /opt/cola/permits/1136045066_1613664947.71/0/aws-java-sdk-kms-1-11-61-sources-1-
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* /opt/cola/permits/1136045066_1613664947.71/0/aws-java-sdk-kms-1-11-61-sources-1-
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jar/com/amazonaws/services/kms/model/transform/EnableKeyRotationRequestMarshaller.java

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/**
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
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 * </p>
 */
/**
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 * </p>
 */
<p>
AWS SDK for Java performs a Base64 encoding on this field before sending this request to AWS service by
default.
</p>
<p>
Users of the SDK should not perform Base64 encoding on this field.
</p>
<p>
Warning: ByteBuffers returned by the SDK are mutable. Changes to the content or position of the byte buffer
will
be seen by all objects that have a reference to this object. It is recommended to call ByteBuffer.duplicate() or
ByteBuffer.asReadOnlyBuffer() before using or reading from the buffer. This behavior will be changed in a
future
major version of the SDK.
</p>
<p>
@param plaintext
</p>
<p>
Decrypted plaintext data. This value may not be returned if the customer master key is not available or if
you didn't have permission to use it.
</p>
*/
/**
 * Decrypted plaintext data. This value may not be returned if the customer master key is not available or if you
 * didn't have permission to use it.
 * </p>
 */
<p>
{@code ByteBuffer}s are stateful. Calling their {@code get} methods changes their {@code position}. We recommend
using [@link java.nio.ByteBuffer#asReadOnlyBuffer()]{@link java.nio.ByteBuffer#asReadOnlyBuffer()} to create a read-only view of the buffer with an
independent
{@code position}, and calling {@code get} methods on this rather than directly on the returned {@code ByteBuffer}.
Doing so will ensure that anyone else using the {@code ByteBuffer} will not be affected by changes to the
{@code position}.
</p>
<p>
@return Decrypted plaintext data. This value may not be returned if the customer master key is not available or
* if you didn't have permission to use it.
* /

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* /opt/cola/permits/1136045066_1613664947.71/0/aws-java-sdk-kms-1-11-61-sources-1-
jar/com/amazonaws/services/kms/model/DecryptResult.java

1.355 quota 4.01 17.el7

1.356 javax-inject 1
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1.357 jackson-databind 2.9.9.3

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1.358 pam 1.1.8 23.el7

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* /opt/cola/permits/1135888237_1613626355.04/0/spring-expression-5-2-8-release-sources-1-jar/org/springframework/expression/common/TemplateParserContext.java
* /opt/cola/permits/1135888237_1613626355.04/0/spring-expression-5-2-8-release-sources-1-jar/org/springframework/expression/ExpressionInvocationTargetException.java

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Schwarz <schwarz@debian.org> and ist maintained since 1999-04-20 by
Christian Hammers <ch@debian.org>.

The MariaDB packages were initally made by http://ourdelta.org/, and
are now managed by the MariaDB development team,
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/FramePrinter.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CodeConverter.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Util.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/framedump.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/Reflect/Reflection.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/tools/Callback.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java
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* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135902035_1613627706.92/0/javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ShortMemberValue.java

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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

------
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 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.

1.372 slf4j 1.7.5

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1.373 zlib 1.2.8

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1.374 libmspack 0.5-0.7.alpha.el7

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**1.376 tomcat-servlet-api 9.0.37**

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* Grant permission to an external app to make API calls on behalf of the current application.

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* @param methods
  * the API methods to allow the other application to call. If the set is empty or null, permission is granted for all API methods.

* @return true if the operation succeeds false otherwise

* Check to see what permissions have been granted to current app by the specified external application.

* For example:

* Application A grants permission on users.getInfo to Application B. Application B can then call permissions_checkAvailableApiAccess(A) and will receive
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* @param apiKey
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* @return a list of all API methods that the specified application has permission to use.
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</OL>

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PRE
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PRE
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PRE

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<br>

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<br>

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signature of Ty Coon, 1 April 1989
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<br>

Version 2, June 1991

<br>

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<br>

<H3>Preamble</H3>

<br>

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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
<P>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.

<P>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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<P>"Source code" for a work means the preferred form of the work for
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<OL TYPE="a">

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

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

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

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

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

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

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

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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

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

That's all there is to it!

1.383 jackson-annotations 2.9.10

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\(^a\)

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   analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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   analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has 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

------
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

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

-----
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

-----
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.

1.402 libdrm 2.4.97-2.el7

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1.403 undertow-core 2.1.3.Final

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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/util/Rfc6265CookieSupport.java
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/StuckThreadDetectionHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/util/LegacyCookieSupport.java
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/attribute/RemoteObfuscatedIPAttribute.java
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*/
/**
* An extension to {@link AbstractConfidentialityHandler} that uses the Host header from the incoming message
* and specifies the
* confidential address by just switching the port.
* 
* @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
*/

Found in path(s):
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/security/handlers/SinglePortConfidentialityHandler.java

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* limitations under the License.
*/
/**
* <p>
* Encodes and decodes to and from Base64 notation.
* </p>
* <p>
* Homepage: &lt;a href="http://iharder.net/base64">http://iharder.net/base64</a&gt;.
* </p>
* <p>
* Example:
* </p>
* <p>
* &lt;code&gt;String encoded = Base64.encode( myByteArray );&lt;/code&gt; &lt;br /&gt;
* &lt;code&gt;byte[] myByteArray = Base64.decode( encoded );&lt;/code&gt;
* </p>
* <p>
* The &lt;tt&gt;options&lt;/tt&gt; parameter, which appears in a few places, is used to pass several pieces of information to the encoder.
* In the "higher level" methods such as encodeBytes( bytes, options ) the options parameter can be used to indicate such things
* as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered
* dialects.
* </p>
* <p>
* Note, according to &lt;a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a&gt;, Section 2.1, implementations should not add
* line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines
* by default.
* </p>
* <p>
* The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:
* </p>
* <p>
* &lt;code&gt;String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );&lt;/code&gt;
* </p>
* <p>
* to compress the data before encoding it and then making the output have newline characters.
* </p>
* <p>
* Also...
* </p>
* <p>
* &lt;code&gt;String encoded = Base64.encodeBytes( crazyString.getBytes() );&lt;/code&gt;
* </p>
* <p>
* Change Log:
v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character
* but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.

v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.

v2.3.5 - Fixed bug in {@link #encodeFromFile} where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.

v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the {@link #decodeToObject(String, int, ClassLoader)} method.

v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException explicitly inline.

v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the {@link #encodeBytesToBytes(byte[])} family of methods (and not using the gzip options which uses a different mechanism with streams and stuff).

v2.3.1 - Added some similar helper methods to be more efficient with memory by not returning a String but just a byte array.

v2.3 - This is not a drop-in replacement! This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone.

Something similar. Here are some changes that may affect you:

Does not break lines, by default. This is to keep in compliance with RFC3548.

Threw exceptions instead of returning null values. Because some operations (especially those that may permit...
* the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions rather than return null if ever there's an
* error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been done
* this way to begin with.</li>
* <li><em>Removed all references to System.out, System.err, and the like. Shame on me. All I can say is sorry they were</em>
* ever there.</li>
* <li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed such as when passed arrays are null or
* offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before people who
* were thorough in their own projects and then had gobs of javadoc warnings on this file.</li>
* <ul>
* <li>v2.2.1 - Fixed bug using URL SAFE and ORDERED encodings. Fixed bug when using very small files (~<lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to
* support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
* <ol>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves
* lexical ordering as described in http://www.faqs.org/qa/rfc1940.html</li>
* <ol>
* <li>Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new
* Base64 dialects.</li>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and
* writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code
* now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are
* cleaner. You'll probably have to change some method calls that you were making to support the new options format.</li>
* <tt>int</tt>s that you "OR" together.</li>
</ul>
* \texttt{v1.5.1} - Fixed bug when decompressing and decoding to a byte[] using \texttt{decode( String s, boolean gzipCompressed )}.
* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).
* \texttt{v1.5} - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.
* \texttt{v1.4} - Added helper methods to read/write files.
* \texttt{v1.3.6} - Fixed OutputStream.flush() so that 'position' is reset.
* \texttt{v1.3.5} - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
* \texttt{v1.3.4} - Fixed when "improperly padded stream" error was thrown at the wrong time.
* \texttt{v1.3.3} - Fixed I/O streams which were totally messed up.
* I am placing this code in the Public Domain. Do with it as you will. This software comes with no guarantees or warranties but with plenty of well-wishing instead! Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/websockets/core/protocol/version07/Base64.java
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  jar/io/undertow/client/PushCallback.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/util/ImmediatePooled.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/protocols/http2/Http2DataFrameParser.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/websockets/core/WebSocketFrame.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/ResponseRateLimitingHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/security/idm/DigestAlgorithm.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/protocol/ajp/AjpServerResponseConduit.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/predicate/RegularExpressionPredicate.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/proxy/mod_cluster/NodeStatus.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/session/PathParameterSessionConfig.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/protocol/version07/WebSocket07CloseFrameSinkChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/websockets/core/protocol/version07/WebSocket07CloseFrameSinkChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/predicate/MaxContentSizePredicate.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/websockets/core/protocol/version13/WebSocket13Channel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/ResponseCodeHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/ResponseRateLimitingHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/util/ConduitFactory.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/session/PathParameterSessionConfig.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/security/api/AuthenticationMode.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/websockets/core/protocol/version07/WebSocket07CloseFrameSinkChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/predicate/MaxContentSizePredicate.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/attribute/IdentUsernameAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/protocols/alpn/OpenSSLAlpnProvider.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/protocols/http2/Http2PushPromiseParser.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/protocol/ajp/AjpRequestParseState.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/attribute/ThreadNameAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/websockets/core/protocol/version07/WebSocket07Channel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/RequestLimitingHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/ServerConnection.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/NameVirtualHostHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/predicate/IdempotentPredicate.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/ResponseCommitListener.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/BlockingHttpExchange.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/security/idm/PasswordCredential.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/AcceptConnectorStatistics.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/protocols/http2/Http2HeadersStreamSinkChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/Holders.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/websockets/core/WebSocketLogger.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/client/ClientProvider.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/session/SslSessionConfig.java
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/TruncatedResponseException.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/QValueParser.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/PathSeparatorHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/ByteRangeHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/FileUtils.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/cache/DirectBufferCache.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/client/http/HttpResponseBuilder.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/DefaultByteBufferPool.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/predicate/PredicateBuilder.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/attribute/CompositeExchangeAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/ImmediateConduitFactory.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/io/AsyncReceiverImpl.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/conduits/FinishableStreamSinkConduit.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/client/http/ResponseParseState.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/predicate/TruePredicate.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/attribute/BytesSentAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/conduits/HeadStreamSinkConduit.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/ConnectorStatisticsImpl.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/attribute/ResponseReasonPhraseAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/attribute/RequestCookieAttribute.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/HeaderValues.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/Transfer.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/AbstractAttachable.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
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jar/io/undertow/server/handlers/SSLHeaderHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/util/ReferenceCountedPooled.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/predicate/ContainsPredicate.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/util/AttachmentKey.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/websockets/core/protocol/version07/WebSocket07BinaryFrameSinkChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/websockets/core/WebSocketCallback.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/util/StatusCodes.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/websockets/core/function/ChannelFunctionWritableByteChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/websockets/core/WebSocketFrameCorruptedException.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/HttpServerExchange.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/websockets/core/WebSocketUtils.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/DelegateOpenListener.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/protocols/ajp/AjpClientFramePriority.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/websockets/core/protocol/version07/WebSocket07PingFrameSinkChannel.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/client/ajp/AjpClientExchange.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/session/SessionCookieConfig.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/protocols/ssl/UndertowXnioSsl.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/session/SessionListener.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/websockets/core/protocol/Handshake.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/client/ClientRequest.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/conduits/ConduitListener.java
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/security/api/SecurityNotification.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/security/handlers/AbstractSecurityContextAssociationHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources.jar/io/undertow/security/impl/AbstractSecurityContext.java

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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/protocols/ssl/SNIContextMatcher.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/protocols/alpn/ALPNEngineManager.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/protocols/ssl/SNIAlpnEngineManager.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/protocols/ssl/SNIAlpnEngineManager.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/protocols/ssl/SNISSLContext.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/protocols/alpn/DefaultAlpnEngineManager.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/protocols/ssl/SNISSLContextSpi.java
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#
io.undertow.protocols.ssl.SNIAlpnEngineManager
io.undertow.protocols.alpn.DefaultAlpnEngineManager

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*/
/**
* Returns an array containing all of the elements in this deque, in
* proper sequence (from first to last element).
*
* <p>The returned array will be "safe" in that no references to it are
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*
* <p>This method acts as bridge between array-based and collection-based
* APIs.
*
* @return an array containing all of the elements in this deque
*/

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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/FastConcurrentDirectDeque.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/util/PortableConcurrentDirectDeque.java

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io.undertow.protocols.alpn.JDK8HackAlpnProvider
io.undertow.protocols.alpn.JettyAlpnProvider
io.undertow.protocols.alpn.JDK9AlpnProvider
io.undertow.protocols.alpn.OpenSSLAlpnProvider

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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/META-INF/services/io.undertow.protocols.alpn.ALPNProvider

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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/proxy/RouteParsingStrategy.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/server/handlers/proxy/RouteIteratorFactory.java

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  jar/io/undertow/server/protocol/ajp/SecurityActions.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/CookieSameSiteMode.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/SameSiteCookieHandler.java
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
  jar/io/undertow/server/handlers/proxy/mod_cluster/ModCluster.java
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  jar/io/undertow/server/handlers/proxy/mod_cluster/NodeConfig.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/NodePingUtil.java
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jar/io/undertow/server/handlers/proxy/mod_cluster/ModClusterProxyClient.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/Balancer.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/NodeHealthChecker.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/VirtualHost.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/MCMPAdvertiseTask.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/ProxyConnectionPoolConfig.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
jar/io/undertow/server/handlers/proxy/mod_cluster/NodeLbStatus.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
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jar/io/undertow/server/handlers/proxy/mod_cluster/MCMPWebManager.java
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* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
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jar/io/undertow/server/handlers/proxy/ConnectionPoolErrorHandler.java
* /opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-
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 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */
/**
 * Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
 * Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual
 * SSLSession.
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request is 'sufficiently' confidential, false otherwise.
 */
/**
 * Use the HttpServerExchange to identify if confidentiality is required.
 * This method currently returns true for all requests, sub-classes can override this to provide a custom check.
 * TODO: we should deprecate this and just use a predicate to decide to execute the handler instead
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return true if the request requires confidentiality, false otherwise.
 */
/**
 * All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the
 * current request return the address to use for a redirect should confidentiality be required and the request not be
 * confidential.
 * @param exchange - The {@link HttpServerExchange} for the request being processed.
 * @return The {@link URI} to redirect to.
 */

Found in path(s):
*/opt/cola/permits/1109701251_1606393222.61/0/undertow-core-2-1-3-final-sources-jar/io/undertow/security/handlers/AbstractConfidentialityHandler.java
1.404 libtirpc 0.2.4 0.16.el7
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 */

1.405 httpcomponents-core 4.4.4
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1.414 spring-oxm 5.3.7

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1.415 slf4j-log4j 1.7.2

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1.416 cache-api 1.0.0

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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.

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1.424 cxf-rt-features-logging 3.4.0

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1.425 clang 6.0.1-2.el7
1.425.1 Available under license:

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:      ; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:      ; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:  vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, %4
    store <64 x i8> %7, <64 x i8>* undef, align 4
}

ret void
}
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vectorwidth"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even

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store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:  # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> 0, 2, 4, 6, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:  # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %y.ptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %y.ptr, <64 x i8>* %z.ptr) "min-legal-vector-width"="512" {  
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %y.ptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %z.ptr
ret void  
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {  
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT: vpaddd %ymm1, %ymm1, %ymm1
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpsdfd {[*+]} xmm1 = xmm0[1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitiializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> <32 x i8>* %5, align 1
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> <32 x i8>* %8, align 1
%10 = mul nsw <32 x i8> <32 x i8>* %9, %6
%11 = add nsw <32 x i32> %9, %6
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:

; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %ymm0
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd \[.\*\#\] %ymm0 = %ymm0\[2,3,0,1\]
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd \[.\*\#\] %ymm1 = %ymm0\[1,1,2,3\]
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

entry:
br label %vector.body

vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sad_16i8_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB11_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
    ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    addq $4, %rax
    ; CHECK-NEXT:    jne .LBB11_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:    vpadd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vmovd %zmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    br label %vector.body
vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 0
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 0
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcmsa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcmsa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcmsa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx4, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbtol6f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sbtol6f32_256:
 ; CHECK:      # %bb.0:
 ; CHECK-NEXT: vmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
 ; CHECK-NEXT: vmovm2d %k1, %ymm0
}
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sbto16f32_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
  ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
  ; CHECK-NEXT:  vextracti128 $1, %zmm0, %xmm0
  ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
  ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT:  vmovaps %xmm0, 32(%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %1 = sitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sbto16f64_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
  ; CHECK-NEXT:  vextracti128 $1, %zmm0, %xmm0
  ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
  ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT:  vmovaps %xmm0, 32(%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitialize
  %1 = sitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sbto16f64_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
  ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
  ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
  ; CHECK-NEXT:  vcvtdq2ps %zmm0, %zmm0
  ; CHECK-NEXT:  vextracti128 $1, %zmm0, %xmm0
  ; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
  ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT:  vmovaps %xmm0, 32(%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitialize

%l = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %l, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vextracti64x4 %s1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %l, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %y整体
; CHECK-NEXT: vpmovm2d %k1, %y整体
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovm2d %k0, %y整体
; CHECK-NEXT: vpmovm2d %k1, %y整体
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovm2d %k0, %y整体
; CHECK-NEXT: vpmovm2d %k1, %y整体
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %l, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0

%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %l, <16 x float>* %res
ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {  
  CHECK-LABEL: ubto16f64_256:
  CHECK:    # %bb.0:
    CHECK-NEXT:    vpmovm2d %k0, %zmm0
    CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
    CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
    CHECK-NEXT:    vzeroupper
    CHECK-NEXT:    retq

    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %l = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %l, <16 x float>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {  
  CHECK-LABEL: ubto16f64_512:
  CHECK:    # %bb.0:
    CHECK-NEXT:    vpmovw2m %ymm0, %k0
    CHECK-NEXT:    kshiftrw $8, %k0, %k1
    CHECK-NEXT:    vpmovm2d %k1, %ymm0
    CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
    CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
    CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
    CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
    CHECK-NEXT:    vpmovm2d %k0, %ymm2
    CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
    CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
    CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
    CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
    CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
    CHECK-NEXT:    vmovaps %ymm3, (%rdi)
    CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
    CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
    CHECK-NEXT:    vzeroupper
    CHECK-NEXT:    retq

    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %l = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %l, <16 x double>* %res
    ret void
}

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define <16 x i16> @test_16f32toub_256( <16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" { 
  ; CHECK-LABEL: test_16f32toub_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vcvtpps2dq (%rdi), %ymm1
  ; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
  ; CHECK-NEXT:  vpmovd2m %ymm1, %k0
  ; CHECK-NEXT:  vcvtpps2dq 32(%rdi), %ymm1
  ; CHECK-NEXT:  vpslld $31, %ymm1, %ymm1
  ; CHECK-NEXT:  vpmovd2m %ymm1, %k1
  ; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
  ; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT:  retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptoui <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512( <16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" { 
  ; CHECK-LABEL: test_16f32toub_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vcvtpps2dq (%rdi), %zmm1
  ; CHECK-NEXT:  vpslld $31, %zmm1, %zmm1
  ; CHECK-NEXT:  vpmovd2m %zmm1, %k1
  ; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
  ; CHECK-NEXT:  retq
  %a = load <16 x float>, <16 x float>* %ptr
  %mask = fptoui <16 x float> %a to <16 x i1>
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256( <16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" { 
  ; CHECK-LABEL: test_16f32tosb_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}


define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: mul512:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
    ; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm2 =
    ; CHECK-NEXT: zmm3[8],zmm0[8],zmm3[9],zmm0[9],zmm3[10],zmm0[10],zmm3[11],zmm0[11],zmm3[12],zmm0[12],zmm3[13],zmm0[13],zmm3[14],zmm0[14],zmm3[15],zmm0[15],zmm3[16],zmm0[16],zmm3[17],zmm0[17],zmm3[18],zmm0[18],zmm3[19],zmm0[19],zmm3[20],zmm0[20],zmm3[21],zmm0[21],zmm3[22],zmm0[22],zmm3[23],zmm0[23]
    ; CHECK-NEXT: vpmullw %zmm1, %zmm2, %zmm2
    ; CHECK-NEXT: vpand %zmm5, %zmm2, %zmm2
    ; CHECK-NEXT: vpackuswb %zmm4, %zmm2, %zmm2
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %d = load <64 x i8>, <64 x i8>* %a
    %e = load <64 x i8>, <64 x i8>* %b
    %f = mul <64 x i8> %d, %e
    store <64 x i8> %f, <64 x i8>* %c
    ret void
}

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Developed by:

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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
    VEC256-LABEL: 'zext256'
    VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    VEC512-LABEL: 'zext256'
    VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

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%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}
define void @zext512() "min-legal-vector-width"="512" {
   : AVX-LABEL: 'zext512'
   : AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
   : AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
   : AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
   : AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
   : AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
   : AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
   :
   : SKX256-LABEL: 'zext512'
   : SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
   : SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
   : SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
   : SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
   : SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
   : SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
   :
   : VEC512-LABEL: 'zext512'
   : VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
   : VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
   : VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
   : VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
   : VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
   : VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
   :
   %A = zext <8 x i16> undef to <8 x i64>
   %B = zext <8 x i32> undef to <8 x i64>
   %C = zext <16 x i8> undef to <16 x i32>
   %D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'sext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
}

define void @sext512() "min-legal-vector-width"="512" {
  ; VEC512-LABEL: 'sext256'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
}

define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
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"/ * 
; RUN: llc -march=hexagon < %s 
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types 
; cause LSR to assume type "void" for the memory type. This would then 
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

 target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 { 
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: 
    ; preds = %entry
    br label %while.body 
  %while.body:
    ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [ 
      i32 1, label %sw.bb.i
      i32 2, label %sw.bb3.i
    ]

    sw.bb.i: 
      ; preds = %while.body
      unreachable
    sw.bb3.i: 
      ; preds = %while.body
      unreachable

  exit: 
    ; preds = %while.body
    switch i32 undef, label %exit.2 [ 
      i32 1, label %sw.bb.i17
      i32 2, label %sw.bb3.i20
    ]

    sw.bb.i17: 
      ; preds = %exit
    %0 = bitcast %struct.0* %lsr.iv to i32*
    %1 = load i32, i32* %0, align 4
    unreachable

    sw.bb3.i20: 
      ; preds = %exit
    %2 = bitcast %struct.0* %lsr.iv to i8**
    %3 = load i8*, i8** %2, align 4
    unreachable

}
exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsl.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:
; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:
; CHECK-DAG: scvtf.2d v0, v0
define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn’t change the fact that we don’t know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?!]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?!]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?!]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?!]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]?!]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]?!]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %[[M3:const_mat[0-9]?!]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M4:const_mat[0-9]?!]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %8 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M5:const_mat[0-9]?!]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %11 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %[[M6:const_mat[0-9]?!]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %13 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
define void @foo_i16() {
entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG:  %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG:  %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT:  %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT:  %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT:  %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT:  %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT:  %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT:  %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT:  %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT:  %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT:  %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT:  %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT:  %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT:  %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT:  %11 = load volatile i16, i16* %10, align 2

define void @foo_i32() {
entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 2
  %1 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
  %2 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 2
  %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
  %4 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 2
  %5 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 2
  ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG:  %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG:  %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i32*
define void @foo_i32() {
entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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</tr>
<tr>
<td>OpenBSD regex</td>
<td>llvm/lib/Support/[reg*, LICENSE.regex]</td>
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<td>pyyaml tests</td>
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select"" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK movaps 16(%rsp), %xmm1
; CHECK-NEXT callq __subtf3
; CHECK-NEXT testl %ebx, %ebx
; CHECK-NEXT jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT addq $32, %rsp
; CHECK-NEXT popq %rbx
; CHECK-NEXT retq
}

define fp128 @TestFabs(fp128 %a) {
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000000000000000000000, %mul

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clarify this fact.

* 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,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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

<!- $Id$ -->

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

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    This Source Code Form is subject to the terms of the Mozilla Public
    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          Copyright (C) </xsl:text>
        </xsl:for-each>
      </xsl:with-param name="text" select="copyright.years"/>
    </xsl:call-template>
  </xsl:variable>
</xsl:stylesheet>
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1.434 bouncy-castle 1.66

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```java
public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,
Found in path(s):
* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/asn1/x9/DomainParameters.java
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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/
```

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```
// now keep space is free to use
```

```
Found in path(s):
* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/crypto/macs/Poly1305.java
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// now keep space is free to use
```

```
Found in path(s):
* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/pqc/crypto/gmss/GMSSPrivateKeyParameters.java
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/**
* The Bouncy Castle License
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```
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SPHINCS-256 signer.

This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used for message hashing and tree construction are now configurable (within limits...) and that the implementation produces detached signatures.

The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of section 1 in https://eprint.iacr.org/2014/795.pdf

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/**
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 * This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used for message hashing and tree construction are now configurable (within limits...) and that the implementation produces detached signatures.
 */

Found in path(s):
*/
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/**
 * Magic value for proprietary OpenSSH private key.
 **/

Found in path(s):
* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/pqc/math/ntru/euclid/test/IntEuclideanTest.java

1.435 ion-java 1.0.1

1.436 cxf-rt-ws-rm 3.4.0
1.436.1 Available under license:

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jar/org/ehcache/core/store/StoreConfigurationImpl.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
jar/org/ehcache/core/CacheManager.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
jar/org/ehcache/core/exceptions/package-info.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
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jar/org/ehcache/core/spi/store/AbstractValueHolder.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
jar/org/ehcache/core/events/NullStoreEventDispatcher.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
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Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

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Metadata-Version: 1.0
Name: ply
Version: 3.4
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description:
PLY is yet another implementation of lex and yacc for Python. Some notable
features include the fact that its implemented entirely in Python and it
uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty
productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking.
It is compatible with both Python 2 and Python 3.
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Ply (Python Lex-Yacc) Version 3.4

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

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

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

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

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

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

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

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

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

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

```python
import ply.lex as lex
import ply.yacc as yacc
```

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

```python
import lex
import yacc
```

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

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

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

A simple example is found at the end of this document

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

PLY requires the use of Python 2.2 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

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

```text
http://www.dabeaz.com/ply
```

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

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

Acknowledgments

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-). The CHANGES file acknowledges those who have contributed patches.

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

Special Note for PLY-3.0

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.2 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py

# A simple calculator with variables.

tokens = (  
    'NAME', 'NUMBER',  
    'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',  
    'LPAREN', 'RPAREN',  
)

# Tokens

t_PLUS = r'\+'
t_MINUS = r'-'
t_TIMES = r'\*'
t_DIVIDE = r'/'
t_EQUALS = r'='
```
t_LPAREN  = r'\('  
# Ignored characters
# Ignores characters
# Build the lexer
import ply.lexer as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
  ('left','PLUS','MINUS'),
  ('left','TIMES','DIVIDE'),
  ('right','UMINUS'),
)

# Dictionary of names (for storing variables)
names = { }

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

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

# Dictionary of names (for storing variables)
names = { }

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

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

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

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

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

def p_error(p):
    print("Syntax error at '%s'")

import ply.yacc as yacc
yacc.yacc()

while 1:
    try:
        s = raw_input('calc > ')  # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches

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

In addition there is a Google group for discussing PLY related issues at
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 * 2002/06/15 20:54:48 craigmcc Exp $
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  jar/org/apache/commons/discovery/tools/PropertiesHolder.java
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1.468 tomcat-el-api 9.0.37

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@enumerate 0
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@end enumerate

@end section

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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

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@var{one line to give the program's name and a brief idea of what it does.}
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@end example

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

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

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.  
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show 
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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

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

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

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@appendixsubsec Preamble

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "\texttt{work based on the library}" and a "\texttt{work that uses the library}". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

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

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

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

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

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

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

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

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

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

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

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

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

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Daniel Savarese <dfs at savarese.org> is the original author of the OROMatcher, PerlTools, AwkTools, and TextTools packages that became the Jakarta-ORO project.

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Michael Davey <michael.davey at coderage.org> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated MatchActionProcessor.processMatches() to accommodate character encodings.

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/cmd/krb5/kproplog/kproplog.c
/cmd/krb5/slave/propd_rpc.c
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/lib/krb5/kadm5/kadm_host_srv_names.c
/lib/krb5/kdb/kdb_convert.c
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/lib/libgss/g_compare_name.c
/lib/libgss/g_context_time.c
/lib/libgss/g_delete_sec_context.c
/lib/libgss/g_dup_name.c
/lib/libgss/g_dup_status.c
/lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

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

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1.489 bridgutils 1.5 9.el7

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  jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
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# text/plain java c c++ pl cc h
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#
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text/csscss
text/csvcsv

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# X-Windows bitmap (b/w)
image/x-xbitmap
# X-Windows pixmap (8-bit color)
image/x-xpixmap
# Portable Network Graphics
# **basic** audio - 8-bit u-law PCM
audio/basic snd
# Macintosh audio format (AIpple)
audio/x-aiff aiff aifc
# Microsoft audio
audio/x-wav wav
# MPEG audio
audio/x-mpeg mpeg
# MPEG-2 audio
audio/x-mpeg-2 mp2 mpega
# compressed speech (Echo Speech Corp.)
audio/echospeech
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio ram
# MIDI music data
x-music/x-midi
# Koan music data (SSeyo)
application/vnd.koan skp
# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpeg mpeg mpg mpe
# MPEG-2 video
video/mpeg-2 v2v m2v
# Macintosh Quicktime
video/quicktime qt mov
# Microsoft video
video/x-msvideo avi
# SGI Movie format
video/x-sgi-moviemovie
# VDOlive streaming video (VDOnet)
video/vdo
# Vivo streaming video (Vivo software)
video/vnd.vivo viv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice
# TEXT-RELATED

# PostScript
application/postscript ai eps ps
# Microsoft Rich Text Format
application/rtf
# Adobe Acrobat PDF
application/pdf
# Maker Interchange Format (FrameMaker)
application/vnd.mif
# Troff document
application/x-troff tr roff
# Troff document with MAN macros
application/x-troff-man
# Troff document with ME macros
application/x-troff-meme
# Troff document with MS macros
application/x-troff-msms
# LaTeX document
application/x-latex
# TeX/LateX document
application/x-tex
# GNU TexInfo document
application/x-texinfo texti
# TeX dvi format
application/x-dvidvi
# MS word document
application/msword DOC
# Office Document Architecture
application/oda
# Envoy Document
application/envoy evy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
# 4.3BSD tar format
application/x-tar
# POSIX tar format
application/x-ustar
# Old CPIO format
application/x-cpio
# POSIX CPIO format
application/x-cpio
# UNIX sh shell archive
application/x-shar
# DOS/PC - Pkzipped archive
application/zip
# Macintosh Binhexed archive
application/mac-binhex40
# Macintosh Stuffit Archive
application/x-stuffitsit sea
# Fractal Image Format
application/fractalsfif
# "Binary UUencoded"
application/octet-stream uu
# PC executable
application/octet-stream exe
# "WAIS ""sources"
application/x-wais-sourcesrc wsrc
# NCSA HDF data format
application/hdf hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript ls mocha
# UNIX bourne shell program
application/x-sh
# UNIX c-shell program
application/x-csh
# Perl program
application/x-perl pl
# Tcl (Tool Control Language) program
application/x-tcl tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash spl
# mBED multimedia data (mBED)
application/mbedlet mbd
# PowerMedia multimedia (RadMedia)
application/x-rad-powermedia rad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint ppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asap asp
# Astound Web Player multimedia data (GoldDisk)
application/astound asn
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# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com
# Pointcast news data (Pointcast)
application/x-pcncn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp
# SourceView document (Dataware Electronics)
application/vnd.svdsvd
# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/cccv
# Spreadsheets (Visual Components)
workbook/formulacvts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlvrml vrml
# WIRL - VRML data (VREAM)
x-world/x-vreamvrw
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr
# WebActive 3d data (Plastic Thought)
x-world/x-wvrvwv
# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica

# Computational meshes for numerical simulations
x-model/x-meshmsh

# Vis5D 5-dimensional data
application/vis5dv5d

# IGES models -- CAD/CAM (CGM) data
application/igesigs

# Autocad WHIP vector drawings
drawing/x-dwfdwf

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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
jar/org/springframework/mail/javamail/mime.types
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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
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  jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
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  jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
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  jar/org/springframework/mail/SimpleMailMessage.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-
  jar/org/springframework/ui/jasperreports/JasperReportsUtils.java
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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2.jar/org/springframework/mail/MimeMessagePreparator.java
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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-jar/org/springframework/ui/velocity/ CommonsLoggingLogSystem.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-jar/org/springframework/mail/MailSender.java
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* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineFactoryBean.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1136045748_1613664720.56/0/spring-context-support-3-1-4-release-sources-2-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java

1.491 velocity 1.7

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1.493 spring-context 3.1.4.RELEASE

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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/cache/ehcache/EhCacheCache.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/context/access/ContextJndiBeanFactoryLocator.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/format/annotation/DateTimeFormat.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/validation/Validator.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/context/annotation/ImportResource.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/ejb/access/LocalStatelessSessionProxyFactoryBean.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/remoting/rmi/RmiRegistryFactoryBean.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/scheduling/timer/TimerFactoryBean.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/jmx/export/annotation/ManagedResource.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/convert/support/ContextTypeMatchClassLoader.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/context/event/SmartApplicationListener.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/context/support/AbstractXmlApplicationContext.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/scheduling/timer/MethodInvokingTimerTaskFactoryBean.java
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/**
* { @link FactoryBean} that obtains a WebSphere { @link javax.management.MBeanServer}
* reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the <code>MBeanServer</code> for bean references.
* This FactoryBean is a direct alternative to { @link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
* @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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  jar/org/springframework/jndi/JndiTemplateEditor.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1.jar/org/springframework/ejb/interceptor/SpringBeanAutowiringInterceptor.java
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jar/org/springframework/remoting/rmi/RmiBasedExporter.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-jar/org/springframework/scripting/bsh/BshScriptUtils.java
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* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
  jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
  jar/org/springframework/cache/interceptor/NameMatchCacheOperationSource.java
* /opt/cola/permits/1136046174_1613665180.04/0/spring-context-3-1-4-release-sources-1-
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  jar/org/springframework/instrument/classloading/oc4j/OC4JClassPreprocessorAdapter.java
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The original versions are tagged 'DOM_LEVEL_2'

The specification of DOM Level 2's various parts is at:

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1.512 fontconfig 2.8.0 5.el6

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

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

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

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code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
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entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

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that is part of the Library, the object code for the work may be a
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
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*
* @author Mikael Grev
* @author Jaap Beetstra
* @author Vladimir Dzhuvinov
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Found in path(s):
* /opt/cola/permits/1136046032_1613665092.91/0/nimbus-jose-jwt-4-23-sources-1-
  jar/com/nimbusds/jose/util/Base64Codec.java
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* /opt/cola/permits/1136046032_1613665092.91/0/nimbus-jose-jwt-4-23-sources-1-jar/META-
  INF/maven/com.nimbusds/nimbus-jose-jwt/pom.xml

1.528 javassist 3.18.1-GA
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* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/ClassClassPath.java
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1.534 libdb 5.3.21 25.el7

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1.535 bean-validation-api 1.1.0.Final

1.536 ustr 1.0.4 16.el7

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 *<p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
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 *<p>
 * Known suffixes is a list of public domain suffixes that cannot be used as wild cards for example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
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 * </p>
 *<p>
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.539 spring-context 5.3.7

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.
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The original package can be found at

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
Macro Packages
--------------

.. The -mdoc macro set, using the BSD license.

   tmac/doc.tmac
   tmac/doc-old.tmac
   tmac/doc-common
   tmac/doc-ditroff
   tmac/doc-nroff
   tmac/doc-syms
   tmac/groff_mdoc.man

.. The -me macro set, using the BSD license.

   tmac/e.tmac
   tmac/groff_me.man
   doc/meintro.me
   doc/meref.me

Hyphenation Patterns
---------------------

.. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
   the TeX system written by Donald E. Knuth; the master file can be found
   at

   ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

   It has been renamed for consistency, i.e., to make patterns available
   under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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.. The file `tmac/hyphen.fr' contains the same patterns as the file
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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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http://dante.ctan.org/CTAN/language/hyphenation/dehyph.tex

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

AUTHOR
-------
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must
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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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1.549 glibc 2.17 323.el7

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

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

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

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

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

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

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

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

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively
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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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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

-------
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

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

-----

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
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The End

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Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

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1.566 commons-validator 1.1.4

1.566.1 Available under license :
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Msg.java,v 1.12.2.2
2004/11/11 15:32:03 niallp Exp $
 * $Revision: 1.12.2.2$
 * $Date: 2004/11/11 15:32:03$
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jar/org/apache/commons/validator/Msg.java

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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/GenericValidator.java,v
1.29 2004/02/21 17:10:29 rleland Exp $
 * $Revision: 1.29$
 * $Date: 2004/02/21 17:10:29$
 */
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Arg.java,v 1.17
2004/02/21 17:10:29 rleland Exp $
 * $Revision: 1.17 $
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 jar/org/apache/commons/validator/Arg.java

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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/util/Flags.java,v 1.8
2004/02/21 17:10:30 rleland Exp $
 * $Revision: 1.8 $
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-
  jar/org/apache/commons/validator/util/Flags.java
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  jar/org/apache/commons/validator/UrlValidator.java
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/*
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Form.java,v 1.14.2.1
  2004/06/22 02:24:38 husted Exp $
* $Revision: 1.14.2.1 $
* $Date: 2004/06/22 02:24:38 $
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/*
$Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorResult.java,v
1.11 2004/02/21 17:10:29 rleland Exp$
$Revision: 1.11$
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jar/org/apache/commons/validator/ValidatorResult.java
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/*
$Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/Constant.java,v
1.10 2004/02/21 17:10:29 rleland Exp$
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jar/org/apache/commons/validator/Constant.java

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/*
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/util/ValidatorUtils.java,v
1.7.2.1 2004/06/22 02:24:38 husted Exp $
* $Revision: 1.7.2.1 $
* $Date: 2004/06/22 02:24:38 $
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/*  
* $Header: /home/cvs/jakarta-commons-validator/src/share/org/apache/commons/validator/ValidatorException.java,v 1.8 2004/02/21 17:10:29 reland Exp $  
* $Revision: 1.8 $  
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* /opt/cola/permits/1136489657_1613774410.05/0/commons-validator-1-1-4-sources-3-jar/org/apache/commons/validator/ValidatorException.java

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/*
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorResults.java,v 1.10 2004/02/21 17:10:29 rleland Exp $
* $Revision: 1.10 $
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  jar/org/apache/commons/validator/ValidatorUtil.java
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/FormSet.java,v 1.15
 2004/02/21 17:10:29 rleland Exp $
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/DateValidator.java,v 1.6
 * 2004/02/21 17:10:29 rleland Exp $
 * $Revision: 1.6 $
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 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/EmailValidator.java,v 1.12
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* $Revision: 1.11 $  
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  jar/org/apache/commons/validator/Var.java
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/*
 * $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/ValidatorResourcesInitializer.java,v 1.22
2004/02/21 17:10:29 rleland Exp $  
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.595 selinux 2.5-14.1.el7

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.17
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2021-05-14T08:20:36Z
X-Builder: Maven 3.8.1
X-Compile-Source: 1.4
X-Compile-Target: 1.4
Bnd-LastModified: 1620980458866
Bundle-Description: XStream is a serialization library from Java objects to XML and back.
Bundle-DocURL: http://x-stream.github.io
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core
Bundle-SymbolicName: xstream
Bundle-Vendor: XStream
Bundle-Version: 1.4.17


JAVA_1_4_HOME: /opt/blackdown-jdk-1.4.2.03
JAVA_1_5_HOME: /opt/sun-jdk-1.5.0.22
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JAVA_1_8_HOME: /opt/oracle-jdk-bin-1.8.0.202
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Tool: Bnd-2.4.1.201501161923

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* /opt/cola/permits/1166458259_1621426611.06/0/xstream-1-4-17-jar/META-INF/MANIFEST.MF

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1.603 icu 50.2-3.el7

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2009, International Business Machines Corporation and
## Commands to generate dependency files

GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
  $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%

%.o: $(srcdir)/%.c
  $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%

%.$(STATIC_O): $(srcdir)/%.cpp
  $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%

%.o: $(srcdir)/%.cpp
  $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
%

## Dependency rules

%.d: $(srcdir)/%.c
  @echo "generating dependency information for $<" 
  @$(SHELL) -ec "$(GEN_DEPS.c) $<" 
  | sed "s/$(([^\n]*)/\([ ]*\1.*\1+$)/g" > $@;
  [ -s $@ ] || rm -f $@"
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed '^s/\(.*\)/o\[ :\]*/\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) $@

## End FreeBSD-specific setup

1.604 graphite 1.3.10 1.el7_3
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/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer} reference through WebSphere's proprietary {@link AdminServiceFactory} API, available on WebSphere 5.1 and higher.
 *
 * Exposes the {@code MBeanServer} for bean references.
 *
 * This {@code FactoryBean} is a direct alternative to the alternative to {@link MBeanServerFactoryBean}, which uses standard JMX 1.2 API to access the platform's {@link MBeanServer}.
 *
 * See the javadocs for WebSphere's
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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 /* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/remoting/support/RemoteInvocationFactory.java */
 /* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/remoting/support/RemoteInvocationExecutor.java */

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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/ui/ModelMapExtensions.kt

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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactory.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/event/EventPublicationInterceptor.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/config/Task.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/jmx/support/MetricType.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/annotation/Condition.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/jmx/support/NotificationListenerHolder.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/EnvironmentAware.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/event/SourceFilteringListener.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/scheduling/config/ScheduledTask.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/ejb/access/SimpleRemoteSlsbInvokerInterceptor.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/cache/interceptor/CacheInterceptor.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/mux/export/naming/MetadataNamingStrategy.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scripting/support/StaticScriptSource.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/format/number/CurrencyStyleFormatter.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/validation/validation/beanvalidation/CustomValidatorBean.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/config/FixedDelayTask.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/validation/DefaultMessageCodesResolver.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/annotation/AsyncExecutionInterceptor.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/annotation/AsyncExecutionInterceptor.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1.jar/org/springframework/context/ApplicationEventPublisherAware.java

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*/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/ApplicationContext.java
*/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
*/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/annotation/PropertySources.java
*/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
*/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/validation/annotation/Validated.java
*/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/cache/interceptor/BasicOperation.java
*/opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
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*/
/**
* Indicates that a component is only eligible for registration when all
* [ @linkplain #value specified conditions ] match.
*
* <p>A <em>condition</em> is any state that can be determined programatically
* before the bean definition is due to be registered (see \{link Condition\} for details).

* <p>The \{code @Conditional\} annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* \{code @Component\}, including \{link Configuration @Configuration\} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any \{link Bean @Bean\} method</li>
* </ul>
*
* <p>If a \{code @Configuration\} class is marked with \{code @Conditional\},
* all of the \{code @Bean\} methods, \{link Import @Import\} annotations, and
* \{link ComponentScan @ComponentScan\} annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of \{code @Conditional\} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* \{code @Conditional\} itself is not declared as
* \{link java.lang.annotation.Inherited @Inherited\}; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* \{code @Conditional\} must not be declared as \{code @Inherited\}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* limitations under the License.
 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/annotation/FilterType.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/annotation/Description.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
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* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/i18n/LocaleContext.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/context/support/StaticMessageSource.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/ui/ModelMap.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/annotation/Async.java
* /opt/cola/permits/1135888116_1613626154.75/0/spring-context-5-2-8-release-sources-1-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
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1.611 spring-beans 4.3.14.RELEASE

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* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/access/BeanFactoryReference.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/SimpleTypeConverter.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/BeanInfoFactory.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/support/AutowireCandidateResolver.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.groovy
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-
jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
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jar/org/springframework/beans/TypeConverter.java
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jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
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jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
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* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
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* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-jar/org/springframework/beans/factory/support/BeanNameGenerator.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
* /opt/cola/permits/1136687670_1613859239.64/0/spring-beans-4-3-14-release-sources-2-jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java

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ASM: a very small and fast Java bytecode manipulation framework

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1.633 lua 5.1.4 15.el7
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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/service/DefaultCacheEventDispatcherConfigurationParser.java
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* /opt/cola/permits/1135872744_1613620816.93/0/ehcache-xml-3-8-1-sources-1-jar/org/ehcache/xml/CoreCacheConfigurationParser.java
1.635 libvisual 0.4.0 16.el7

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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
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,
whether or not they are linked directly with the Library itself.

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copyright notice for the Library among them, as well as a reference
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      changes were used in the work (which must be distributed under
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      with the Library, with the complete machine-readable "work that
      uses the Library", as object code and/or source code, so that the
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      that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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      Library. A suitable mechanism is one that (1) uses at run time a
      copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
      will operate properly with a modified version of the library, if
      the user installs one, as long as the modified version is
      interface-compatible with the version that the work was made with.

   c) Accompany the work with a written offer, valid for at
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1.637 kerberos 1.15.1-37.el7_7.2

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- cmd/krb5/prop/prop_hdr.h
- cmd/krb5/kadmin/server/propd_svc.c
- cmd/krb5/kproplog/kproplog.c
- cmd/krb5/slave/propd_rpc.c
- lib/gss_mechs/mech_krb5/et/kdb5_err.c
- lib/gss_mechs/mech_spnego/mecch/gssapiP_spnego.h
- lib/gss_mechs/mech_spnego/mecch/spnego_mech.c
- lib/krb5/kadm5/kadm_host_srv_names.c
- lib/krb5/kdb/kdb_convert.c
- lib/krb5/kdb/kdb_hdr.h
- lib/krb5/kdb/kdb_log.c
- lib/krb5/kdb/kdb_log.h
- lib/gss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
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lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
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lib/libgss/g_unseal.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glu.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_creds.c
lib/gssapi/mechglue/g_rel_names.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_creds.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>  
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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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, dectionst, r56000, 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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/* number.c: Implements arbitrary precision numbers. */
/*

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*************************************************************************/

#include <stdio.h>  
#include <config.h>  
#include <number.h>  
#include <assert.h>  
#include <stdlib.h>  
#include <string.h>  
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn  
#define bc_rt_error rt_error  
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg,...));  
_PROTOTYPE(void rt_error, (char *mesg,...));  
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;  
bc_num _one_;  
bc_num _two_;  

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */
bc_num
bc_new_num (length, scale)
    int length, scale;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = (char *) malloc (length+scale);
    if (temp->n_ptr == NULL) bc_out_of_memory();
    temp->n_value = temp->n_ptr;
    memset (temp->n_ptr, 0, length+scale);
    return temp;
}

/* "Frees" a bc_num NUM. Actually decreases reference count and only
frees the storage if reference count is zero. */
void
bc_free_num (num)
    bc_num *num;
{
    if (*num == NULL) return;
    (*num)->n_refs--;
    if ((*num)->n_refs == 0) {
        if ((*num)->n_ptr)
            free ((*num)->n_ptr);
        (*num)->n_next = _bc_Free_list;
        _bc_Free_list = *num;
    }
    *num = NULL;
}

/* Initialize the number package! */

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
```c
_one_  = bc_new_num (1,0);
_one_->n_value[0] = 1;
_two_  = bc_new_num (1,0);
_two_->n_value[0] = 2;
}

/* Make a copy of a number! Just increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
    return num;
}

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM. 
_bc_rm_leading_zeros just moves the data "value" pointer to the 
correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
    /* We can move _value to point to the first non zero digit! */
    while (*num->n_value == 0 && num->n_len > 1) {
        num->n_value++;
        num->n_len--;
    }
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less 
than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just 
compare the magnitudes. */

static int
```
bc_do_compare (n1, n2, use_sign, ignore_last)

bc_num n1, n2;
int use_sign;
int ignore_last;
{
char *n1ptr, *n2ptr;

int count;

/* First, compare signs. */
if (use_sign && n1->n_sign != n2->n_sign)
{
    if (n1->n_sign == PLUS)
return (1); /* Positive N1 > Negative N2 */
    else
return (-1); /* Negative N1 < Positive N1 */
}

/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
{
    if (n1->n_len > n2->n_len)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
return (1);
        else
return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
return (-1);
        else
return (1);
    }
}

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
}
count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}
/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
        { /* Magnitude of n1 > n2. */
            if (*n1ptr++ != 0)
            {
                if (!use_sign || n1->n_sign == PLUS)
                    return (1);
                else
                    return (-1);
            }
        }
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
        { /* Magnitude of n1 < n2. */
            if (*n2ptr++ != 0)
            {
                if (!use_sign || n1->n_sign == PLUS)
                    return (-1);
                else
                    return (1);
            }
        }
    }
}
else
/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
   bc_num n1, n2;
{
   return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
   bc_num num;
{
   return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
   bc_num num;
{
   int count;
   char *nptr;

   /* Quick check. */
   if (num == _zero_) return TRUE;

   /* Initialize */
   count = num->n_len + num->n_scale;
   nptr = num->n_value;

   /* The check */
   while ((count > 0) && (*nptr++ == 0)) count--;

   if (count != 0)
return FALSE;
else
    return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
   Specifically, all but the last digit is 0 and the last digit is 1.
   Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

    /* Initialize */
    count = num->n_len + scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0 && (count != 1 || *--nptr != 1))
        return FALSE;
    else
        return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
   returned. The signs of N1 and N2 are ignored.
   SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
int count;

/* Prepare sum. */
sum_scale = MAX (n1->n_scale, n2->n_scale);
sum_digits = MAX (n1->n_len, n2->n_len) + 1;
sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > sum_scale)
{
    sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
    for (count = scale_min - sum_scale; count > 0; count--)
        *sumptr++ = 0;
}

/* Start with the fraction part. Initialize the pointers. */
n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction.*/
if (n1bytes != n2bytes)
{
    if (n1bytes > n2bytes)
        while (n1bytes > n2bytes)
            { *sumptr-- = *n1ptr--; n1bytes--; }
    else
        while (n2bytes > n1bytes)
            { *sumptr-- = *n2ptr--; n2bytes--; }
}

/* Now add the remaining fraction part and equal size integer parts. */

n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
    
        carry = 0;
        sumptr--;
n1bytes--;  
n2bytes--;  
}  

/* Now add carry the longer integer part. */  
if (n1bytes == 0)  
{  
n1bytes = n2bytes;  n1ptr = n2ptr;  }  
while (n1bytes-- > 0)  
{  
  *sumptr = *n1ptr-- + carry;  
  if (*sumptr > (BASE-1))  
  {  
    carry = 1;  
    *sumptr -= BASE;  
  }  
  else  
  carry = 0;  
  sumptr--;  
}  

/* Set final carry. */  
if (carry == 1)  
  *sumptr += 1;  

/* Adjust sum and return. */  
_bc_rm_leading_zeros (sum);  
return sum;  
}  

/* Perform subtraction: N2 is subtracted from N1 and the value is  
returned. The signs of N1 and N2 are ignored. Also, N1 is  
assumed to be larger than N2. SCALE_MIN is the minimum scale  
of the result. */  
static bc_num  
_bc_do_sub (n1, n2, scale_min)  
  bc_num n1, n2;  
  int scale_min;  
{  
  bc_num diff;  
  int diff_scale, diff_len;  
  int min_scale, min_len;  
  char *n1ptr, *n2ptr, *diffptr;  
  int borrow, count, val;  

  /* Allocate temporary storage. */  
  diff_len = MAX (n1->n_len, n2->n_len);
diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN (n1->n_len, n2->n_len);
min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
{
    diffptr = (char *) (diff->n_value + diff_len + diff_scale);
    for (count = scale_min - diff_scale; count > 0; count--)
        *diffptr++ = 0;
}

/* Initialize the subtract. */
n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
        *diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        } else
            borrow = 0;
        *diffptr-- = val;
    }
}

/* Clean up and return. */
_bc_rm_leading_zeros (diff);
return diff;

/* Here is the full subtract routine that takes care of negative numbers.  
   N2 is subtracted from N1 and the result placed in RESULT.  SCALE_MIN 
   is the minimum scale for the result. */

void 
bc_sub (n1, n2, result, scale_min)

    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;
if (n1->n_sign != n2->n_sign)
{
    diff = _bc_do_add (n1, n2, scale_min);
    diff->n_sign = n1->n_sign;
}
else
{
    /* subtraction must be done. */
    /* Compare magnitudes. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
    switch (cmp_res)
    {
    case -1:
        /* n1 is less than n2, subtract n1 from n2. */
        diff = _bc_do_sub (n2, n1, scale_min);
        diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
        break;
    case 0:
        /* They are equal! return zero! */
        res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
        diff = bc_new_num (1, res_scale);
        memset (diff->n_value, 0, res_scale+1);
        break;
    case 1:
        /* n2 is less than n1, subtract n2 from n1. */
        diff = _bc_do_sub (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
        break;
    }
    /* Clean up and return. */
    bc_free_num (result);
    *result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
 N1 is added to N2 and the result placed into RESULT. SCALE_MIN
 is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;

    /* Here is the full add routine that takes care of negative numbers.
     N1 is added to N2 and the result placed into RESULT. SCALE_MIN
     is the minimum scale for the result. */

    void
    bc_add (n1, n2, result, scale_min)
        bc_num n1, n2, *result;
        int scale_min;
    {
        bc_num sum = NULL;
        int cmp_res;
int res_scale;

if (n1->n_sign == n2->n_sign)
{
    sum = _bc_do_add (n1, n2, scale_min);
    sum->n_sign = n1->n_sign;
}
else
{
    /* subtraction must be done. */
    cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
    switch (cmp_res)
    {
    case -1:
        /* n1 is less than n2, subtract n1 from n2. */
        sum = _bc_do_sub (n2, n1, scale_min);
        sum->n_sign = n2->n_sign;
        break;
    case 0:
        /* They are equal! return zero with the correct scale! */
        res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
        sum = bc_new_num (1, res_scale);
        memset (sum->n_value, 0, res_scale+1);
        break;
    case 1:
        /* n2 is less than n1, subtract n2 from n1. */
        sum = _bc_do_sub (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
        break;
    }

    /* Clean up and return. */
    bc_free_num (result);
    *result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */
static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
    temp->n_scale = scale;
    temp->n_refs = 1;
    temp->n_ptr = NULL;
    temp->n_value = value;
    return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
    int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end;/* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) ((*prod)->n_value + prodlen - 1);
    sum = 0;

    /* Here is the loop... */
    for (indx = 0; indx < prodlen-1; indx++)
    {
        n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
        n2ptr = (char *) (n2end - MIN(indx, n2len-1));
        while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
            sum += *n1ptr-- * *n2ptr++;
        *pvptr-- = sum % BASE;
sum = sum / BASE;
}
*pvptr = sum;
}

/* A special adder/subtractor for the recursive divide and conquer
 multiply algorithm. Note: if sub is called, accum must
 be larger that what is being subtrated. Also, accum and val
 must have n_scale = 0. (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
  signed char *accp, *valp;
  int  count, carry;

  count = val->n_len;
  if (val->n_value[0] == 0)
    count--;
  assert (accum->n_len+accum->n_scale >= shift+count);

  /* Set up pointers and others */
  accp = (signed char*)(accum->n_value +
    accum->n_len + accum->n_scale - shift - 1);
  valp = (signed char*)(val->n_value + val->n_len - 1);
  carry = 0;

  if (sub) {
    /* Subtraction, carry is really borrow. */
    while (count--) {
      *accp -= *valp-- + carry;
      if (*accp < 0) {
        carry = 1;
        *accp-- += BASE;
      } else {
        carry = 0;
      }
      accp--;
    }
    while (carry) {
      *accp -= carry;
      if (*accp < 0)
        *accp-- += BASE;
      else
        carry = 0;
    }
  } else {
    /* Addition */

while (count--) { 
    *accp += *valp-- + carry;
    if (*accp > (BASE-1)) { carry = 1; 
        *accp-- -= BASE;
    } else { carry = 0; accp--; }
}
while (carry) { 
    *accp += carry;
    if (*accp > (BASE-1)) *accp-- -= BASE;
    else carry = 0;
}

/* Recursive divide and conquer multiply algorithm. 
Based on 
Let u = u0 + u1*(b^n) 
Let v = v0 + v1*(b^n) 
Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0 
B is the base of storage, number of digits in u1,u0 close to equal. */
static void 
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
    int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1len;
    int d1len, d2len;

    /* Base case? */
    if ((ulen+vlen) < mul_base_digits 
        || ulen < MUL_SMALL_DIGITS 
        || vlen < MUL_SMALL_DIGITS ) { 
        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
        return;
    }

    /* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;
/* Split u and v. */
if (ulen < n) {
    u1 = bc_copy_num (_zero_);
    u0 = new_sub_num (ulen, 0, u->n_value);
} else {
    u1 = new_sub_num (ulen-n, 0, u->n_value);
    u0 = new_sub_num (n, 0, u->n_value+ulen-n);
}
if (vlen < n) {
    v1 = bc_copy_num (_zero_);
    v0 = new_sub_num (vlen, 0, v->n_value);
} else {
    v1 = new_sub_num (vlen-n, 0, v->n_value);
    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
}
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */
bc_init_num(&d1);
bcc_init_num(&d2);
bcc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bcc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);
if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);
if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}
    _bc_shift_addsub (*prod, m3, n, 0);
    _bc_shift_addsub (*prod, m3, 0, 0);
    _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)). */

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

/* Initialize things. */
len1 = n1->n_len + n1->n_scale;
len2 = n2->n_len + n2->n_scale;
full_scale = n1->n_scale + n2->n_scale;
prod_scale = MIN(full_scale, MAX(scale, MAX(n1->n_scale, n2->n_scale)));

/* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);
/ Assign to prod and clean up the number. */
pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
pval->n_value = pval->n_ptr;
pval->n_len = len2 + len1 + 1 - full_scale;
pval->n_scale = prod_scale;
.bc_rm_leading_zeros (pval);
if (bc_is_zero (pval))
  pval->n_sign = PLUS;
b_c_free_num (prod);
*prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT. It is written so that NUM and RESULT can be
the same pointers. */
static void
_one_mult (num, size, digit, result)
  unsigned char *num;
  int size, digit;
  unsigned char *result;
{
  int carry, value;
  unsigned char *nptr, *rptr;

  if (digit == 0)
    memset (result, 0, size);
  else
    {
      if (digit == 1)
        memcpy (result, num, size);
      else
        {
          /* Initialize */
          nptr = (unsigned char *) (num+size-1);
          rptr = (unsigned char *) (result+size-1);
          carry = 0;

          while (size-- > 0)
            {
              value = *nptr-- * digit + carry;
              *rptr-- = value % BASE;
              carry = value / BASE;
            }

          if (carry != 0) *rptr = carry;
/* The full division routine. This computes N1 / N2. It returns 0 if the division is ok and the result is in QUOT. The number of digits after the decimal point is SCALE. It returns -1 if division by zero is tried. The algorithm is found in Knuth Vol 2. p237. */

int bc_divide (n1, n2, quot, scale)
  bc_num n1, n2, *quot;
  int scale;
{
  bc_num qval;
  unsigned char *num1, *num2;
  unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
  int scale1, val;
  unsigned int len1, len2, scale2, qdigits, extra, count;
  unsigned int qdig, qguess, borrow, carry;
  unsigned char *mval;
  char zero;
  unsigned int norm;

  /* Test for divide by zero. */
  if (bc_is_zero (n2)) return -1;

  /* Test for divide by 1. If it is we must truncate. */
  if (n2->n_scale == 0)
    {
      if (n2->n_len == 1 && *n2->n_value == 1)
        {
          qval = bc_new_num (n1->n_len, scale);
          qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
          memset (&qval->n_value[n1->n_len],0,scale);
          memcpy (qval->n_value, n1->n_value,
            n1->n_len + MIN(n1->n_scale,scale));
          bc_free_num (quot);
          *quot = qval;
        }
      /* Set up the divide. Move the decimal point on n1 by n2's scale.
       Remember, zeros on the end of num2 are wasted effort for dividing. */
      scale2 = n2->n_scale;
      n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
      while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

...
len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
    extra = scale - scale1;
else
    extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;

while (*n2ptr == 0)
{
    n2ptr++;
    len2--;
}

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
{
    qdigits = scale+1;
    zero = TRUE;
}
else
{
    zero = FALSE;
    if (len2>len1)
        qdigits = scale+1; /* One for the zero integer part. */
    else
        qdigits = len1-len2+scale+1;
}

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale, scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
    qptr = (unsigned char *) qval->n_value+len2-len1;
    else
    qptr = (unsigned char *) qval->n_value;

    /* Loop */
    while (qdig <= len1+scale-len2)
    {
        /* Calculate the quotient digit guess. */
        if (*n2ptr == num1[qdig])
            qguess = 9;
        else
            qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

        /* Test qguess. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - n2ptr[qguess]*10
            + num1[qdig+2])
        {
            qguess--; /* And again. */
        if (n2ptr[1]*qguess >
            (num1[qdig]*10 + num1[qdig+1] - n2ptr[qguess]*10
            + num1[qdig+2])
        qguess--; /* Multiply and subtract. */
    }

    borrow = 0;
    if (qguess != 0)
    {
        *mval = 0;
        _one_mult (n2ptr, len2, qguess, mval+1);
        ptr1 = (unsigned char *) num1+qdig+len2;
        ptr2 = (unsigned char *) mval+len2;
        for (count = 0; count < len2+1; count++)

{ 
  val = (int) *ptr1 - (int) *ptr2 - borrow;
  if (val < 0)
    {
      val += 10;
      borrow = 1;
    }
  else
    borrow = 0;
  *ptr1-- = val;
}

/* Test for negative result. */
if (borrow == 1)
  {
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
      {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
          {
            val -= 10;
            carry = 1;
          }
        else
          carry = 0;
        *ptr1-- = val;
      }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
  }

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
.bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;
/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0;/* Everything is OK. */

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and 
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT 
is NULL then that store will be omitted. */

int
bc_divmod (num1, num2, quot, rem, scale)
  bc_num num1, num2, *quot, *rem;
  int scale;
{
  bc_num quotient = NULL;
  bc_num temp;
  int rscale;

  /* Check for correct numbers. */
  if (bc_is_zero (num2)) return -1;

  /* Calculate final scale. */
  rscale = MAX (num1->n_scale, num2->n_scale+scale);
  bc_init_num(&temp);

  /* Calculate it. */
  bc_divide (num1, num2, &temp, scale);
  if (quot)
    quotient = bc_copy_num (temp);
  bc_multiply (temp, num2, &temp, rscale);
  bc_sub (num1, temp, rem, rscale);
  bc_free_num (&temp);

  if (quot)
  {
    bc_free_num (quot);
    *quot = quotient;
  }

  return 0;/* Everything is OK. */
}
/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
   bc_num num1, num2, *result;
   int scale;
{
   return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
placed in RESULT. If a EXPO is not an integer,
only the integer part is used. */

int
bc_raisemod (base, expo, mod, result, scale)
   bc_num base, expo, mod, *result;
   int scale;
{
   bc_num power, exponent, parity, temp;
   int rscale;

   /* Check for correct numbers. */
   if (bc_is_zero(mod)) return -1;
   if (bc_is_neg(expo)) return -1;

   /* Set initial values. */
   power = bc_copy_num (base);
   exponent = bc_copy_num (expo);
   temp = bc_copy_num (_one_);
   bc_init_num(&parity);

   /* Check the base for scale digits. */
   if (base->n_scale != 0)
       bc_rt_warn ("non-zero scale in base");

   /* Check the exponent for scale digits. */
   if (exponent->n_scale != 0)
       { bc_rt_warn ("non-zero scale in exponent");
       bc_divide (exponent, _one_, &exponent, 0); /*truncate */
       }  

   /* Check the modulus for scale digits. */
   if (mod->n_scale != 0)
       bc_rt_warn ("non-zero scale in modulus");
/* Do the calculation. */
rscale = MAX(scale, base->n_scale);
while ( !bc_is_zero(exponent) )
{
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
    {
        bc_multiply (temp, power, &temp, rscale);
        (void) bc_modulo (temp, mod, &temp, scale);
    }
    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
}

/* Assign the value. */
broadcast_free_num (&power);
broadcast_free_num (&exponent);
broadcast_free_num (result);
*result = temp;
return 0;/* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT. Maximum exponent is LONG_MAX. If a NUM2 is not an integer, only the integer part is used. */
void
broadcast_raise (num1, num2, result, scale)
    broadcast_num num1, num2, *result;
    int scale;
{
    broadcast_num temp, power;
    long exponent;
    int rscale;
    int powrscale;
    int calcscale;
    char neg;

    /* Check the exponent for scale digits and convert to a long. */
    if (num2->n_scale != 0)
        broadcast_rt_warn("non-zero scale in exponent");
    exponent = broadcast_num2long (num2);
    if (exponent == 0 &&
        (num2->n_len > 1 || num2->n_value[0] != 0))
        broadcast_rt_error("exponent too large in raise");

    /* Special case if exponent is a zero. */
    if (exponent == 0)
{  
  bc_free_num (result);  
  *result = bc_copy_num (_one_);  
  return;  
}

/* Other initializations. */
if (exponent < 0)  
{  
  neg = TRUE;  
  exponent = -exponent;  
  rscale = scale;  
}
else  
{  
  neg = FALSE;  
  rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));  
}

/* Set initial value of temp. */
power = bc_copy_num (num1);  
pwrscale = num1->n_scale;  
while ((exponent & 1) == 0)  
{  
  pwrscale = 2*pwrscale;  
  bc_multiply (power, power, &power, pwrscale);  
  exponent = exponent >> 1;  
}

temp = bc_copy_num (power);  
calcscale = pwrscale;  
exponent = exponent >> 1;  

/* Do the calculation. */
while (exponent > 0)  
{  
  pwrscale = 2*pwrscale;  
  bc_multiply (power, power, &power, pwrscale);  
  
  if ((exponent & 1) == 1) {  
    calcscale = pwrscale + calcscale;  
    bc_multiply (temp, power, &temp, calcscale);  
  }
  exponent = exponent >> 1;  
}

/* Assign the value. */
if (neg)  
{  
  bc_divide (_one_, temp, result, rscale);  
}
bc_free_num (&temp);
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
        (*result)->n_scale = rscale;
}
bc_free_num (&power);

/* Take the square root NUM and return it in NUM with SCALE digits
   after the decimal place. */

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
    int rscale, cmp_res, done;
    int cscale;
    bc_num guess, guess1, point5, diff;

    /* Initial checks. */
    cmp_res = bc_compare (*num, _zero_);
    if (cmp_res < 0)
        return 0; /* error */
    else
    {
        if (cmp_res == 0)
        {
            bc_free_num (num);
            *num = bc_copy_num (_zero_);
            return 1;
        }
        else
        {
            if (cmp_res == 0)
            {
                bc_free_num (num);
                *num = bc_copy_num (_zero_);
                return 1;
            }
            cmp_res = bc_compare (*num, _one_);
            if (cmp_res == 0)
            {
                bc_free_num (num);
                *num = bc_copy_num (_one_);
                return 1;
            }
        }
    }
    rscale = MAX (scale, (*num)->n_scale);
    bc_init_num(&guess);
/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
}
else
{
    /* The number is greater than 1. Guess should start at 10^(exp/2). */
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
    {
        if (cscale < rscale+1)
            cscale = MIN (cscale*3, rscale+1);
        else
            done = TRUE;
    }
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess, _one_num, rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;

/* The following routines provide output for bcd numbers package
   using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
    long  digit;
    struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
   SIZE characters must be output for the value VAL. If SPACE is
   non-zero, we must output one space before the number. OUT_CHAR
   is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;

    if (space) (*out_char) (');
    sprintf (digits, "%ld", val);
    len = strlen (digits);
    while (size > len)
    {
        (*out_char) ('0');
        size--;
    }
    for (ix=0; ix < len; ix++)
/* Output of a bcd number.  NUM is written in base O_BASE using OUT_CHAR as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
{
    char *nptr;
    int  index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            /* The number is in base 10, do it the fast way. */
            nptr = num->n_value;
        for (index=num->n_len; index>0; index--)
            (*out_char) (BCD_CHAR(*nptr++));
        else
            if (leading_zero && bc_is_zero (num))
                (*out_char) ('0');

            /* Now the fraction. */
            if (num->n_scale > 0)
                (*out_char) ('.);
            for (index=0; index<num->n_scale; index++)
                (*out_char) (BCD_CHAR(*nptr++));
else
{
/* special case ... */
if (leading_zero && bc_is_zero (num))
(*out_char) ('0');

/* The number is some other base. */
digits = NULL;
bcsinitnum (&int_part);
bcsdivide (num, _one_, &int_part, 0);
bcsinitnum (&frac_part);
bcsinitnum (&cur_dig);
bcsinitnum (&base);
bcssubtract (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bcsint2num (&base, o_base);
bcsinitnum (&max_o_digit);
bcsint2num (&max_o_digit, o_base-1);

/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bcdivide (int_part, base, &int_part, 0);
}
/* Print the digits on the stack. */
if (digits != NULL)
{
/* Output the digits. */
    while (digits != NULL)
    {
        temp = digits;
        digits = digits->next;
        if (o_base <= 16)
            (*out_char) (ref_str[ (int) temp->digit]);
        else
            bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
    }
/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('.);
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
        else {
            bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
            pre_space = 1;
        }
        bc_multiply (t_num, base, &t_num, 0);
    }
    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}

/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
    long val;
    char *nptr;
    int  index;

    /* Extract the int value, ignore the fraction. */
val = 0;
nptr = num->n_value;
for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
   val = val*BASE + *nptr++;

/* Check for overflow. If overflow, return zero. */
if (index>0) val = 0;
if (val < 0) val = 0;

/* Return the value. */
if (num->n_sign == PLUS)
   return (val);
else
   return (-val);
}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
   bc_num *num;
   int val;
{
   char buffer[30];
   char *bptr, *vptr;
   int  ix = 1;
   char neg = 0;

   /* Sign. */
   if (val < 0)
      {
      neg = 1;
      val = -val;
      }

   /* Get things going. */
   bptr = buffer;
   *bptr++ = val % BASE;
   val = val / BASE;

   /* Extract remaining digits. */
   while (val != 0)
      {
      *bptr++ = val % BASE;
      val = val / BASE;
      ix++; /* Count the digits. */
      }
/* Make the number. */
bc_free_num (num);
*num = bc_new_num (ix, 0);
if (neg) (*num)->n_sign = MINUS;

/* Assign the digits. */
vptr = (*num)->n_value;
while (ix-- > 0)
    *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only. */
char
*num2str (num)
    bc_num num;
{
    char *str, *sptr;
    char *nptr;
    int  index, signch;

    /* Allocate the string memory. */
    signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
    if (num->n_scale > 0)
        str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
    else
        str = (char *) malloc (num->n_len + 1 + signch);
    if (str == NULL) bc_out_of_memory();

    /* The negative sign if needed. */
    sptr = str;
    if (signch) *sptr++ = '-';

    /* Load the whole number. */
    nptr = num->n_value;
    for (index=num->n_len; index>0; index--)
        *sptr++ = BCD_CHAR(*nptr++);

    /* Now the fraction. */
    if (num->n_scale > 0)
        {
            *sptr++ = '.';
            for (index=0; index<num->n_scale; index++)
                *sptr++ = BCD_CHAR(*nptr++);
        }

    /* Terminate the string and return it! */
void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
    digits = 0;
    strscale = 0;
    zero_int = FALSE;
    if ( (*ptr == '+') || (*ptr == '-'))  ptr++;  /* Sign */
    while (*ptr == '0') ptr++;	/* Skip leading zeros. */
    while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
    if (*ptr == '.') ptr++;	/* decimal point */
    while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
    if (((*ptr == '0') || (digits+strscale == 0))
    {  *
        *num = bc_copy_num (_zero_);
        return;
    }

    /* Adjust numbers and allocate storage and initialize fields. */
    strscale = MIN(strscale, scale);
    if (digits == 0)
    {
        zero_int = TRUE;
        digits = 1;
    }
    *num = bc_new_num (digits, strscale);

    /* Build the whole number. */
    ptr = str;
    if (*ptr == '.')
    {
        (*num)->n_sign = MINUS;
        (*num)->n_scale = strscale;
        (*num)->n_digits = digits;
    }
}
ptr++;
}
else
{
  (*num)->n_sign = PLUS;
  if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
  *nptr++ = 0;
  digits = 0;
}
for (; digits > 0; digits--)
  *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
  ptr++; /* skip the decimal point! */
  for (; strscale > 0; strscale--)
    *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */
static void
out_char (int c)
{
  putchar(c);
}

void
pn (num)
  bc_num num;
{
  bc_out_num (num, 10, out_char, 0);
  out_char ('\n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
char *name;
unsigned char *num;
int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c", BCD_CHAR(num[i]));
    printf ("\n");
}

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Version 2.1, February 1999

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### 1.685 trousers 0.3.14 2.el7

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

---

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ecf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
-----------  ------  ------  ------  ------  ------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
-----------  ------  ------  ------  ------  ------
__ts_dev__1  2048   4095   1024    83  Linux

--------------------------
Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d5f5a88a045db233418dd73fbe bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529eb59c9341afef0443f196a1 bsd.img

---layout----------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):
BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsize bsize cpg]
a:     4096      6144      2049     4.2BSD        0     0     0
c:     4096     20479     16384     unused        0     0
d:        0     16064     16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition  a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660  10  AdvFS
4  System V

BSD disklabel command (m for help):

1.688 netty-transport 4.1.33.Final
1.688.1 Available under license :
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* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/bootstrap/FailedChannel.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/PendingBytesTracker.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/internal/package-info.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/internal/ChannelUtils.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

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 * under the License.
 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [@link ChannelPipeline].
 *
 * <h3>Sub-types</h3>
 * <p>
 * [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
 * <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
 * <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * <p>
 * A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext] object. A [@link ChannelHandler] is supposed to interact with the
 * [@link ChannelPipeline] it belongs to via a context object. Using the
 * context object, the [@link ChannelHandler] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [@link AttributeKey]s) which is specific to the handler.
*  
* <h3>State management</h3>
*  
* A [@link ChannelHandler] often needs to store some stateful information. The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*  
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]&lt;Message&gt; {  
*     private boolean loggedIn;
*  
*     { @code @Override}
*     public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;  
*         } else (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }  
* </pre>
* Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See [@link ChannelInitializer#initChannel(Channel)].
* public class DataServerInitializer extends [@link ChannelInitializer]&lt:@link Channel] {  
*     { @code @Override}
*     public void initChannel([@link Channel] channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }  
* </pre>
*
<h4>Using `AttributeKey`s</h4>

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use `AttributeKey`s which is provided by `ChannelHandlerContext`:

```
public interface Message {
    // your methods here
}
```

```
@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```
public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:
The `@Sharable` annotation

In the example above which used an `@AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `@ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

*/

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/*
  /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/ChannelHandler.java
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jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
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* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/pool/DefaultChannelHandlerContext.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/pool/ChannelPool.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
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* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/pool/package-info.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/pool/ChannelPoolMap.java

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* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/AbstractEventLoop.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java

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* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/PipelineException.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/socket/oio/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1073009177_1595250197.75/0/netty-transport-4-1-33-final-sources-1-jar/io/netty/channel/ChannelInboundInvoker.java
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  jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
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[This is the first released version of the library GPL. It is
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 *    combined, allow nicstar_free_rx_skb to be called to
 *    recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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*
* M. Welsh, 6 July 1996
*
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for patching the cable card decoder driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.
EXHIBIT A

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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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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1.700 forgerock-audit-core 21.0.0-alpha-23

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Dean Elsner wrote the original gas for vax. [more details?]
Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't
intentionally leaving anyone out.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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Ty Coon, President of Vice

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has...
a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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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
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will operate properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1.jar/org/springframework/core/util/PropertyPlaceholderHelper.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/io/UrlResource.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-
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jar/org/springframework/core/annotation/AnnotationAttributes.java
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/SpringVersion.java
* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/InputStreamResource.java
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* /opt/ws_local/PERMITS_SQL/1076767661_1596651328.23/0/spring-core-3-1-4-release-sources-1-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
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1.708 jetty-continuation 9.4.31.v20200723

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Eclipse

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The following artifacts are EPL and ASL2.
* 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

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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

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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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1.709 bcel-findbugs 6.0

1.710 gmp 6.0.0 15.el7

1.710.1 Available under license:

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- web-common_4_0.xsd
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1.713 juli 6.0.53
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at
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1.726 pam 1.1.8 22.el7

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1.737 xml-commons-resolver 1.2

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may 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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Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.741 grep 2.20-3.el7
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1.747 axis2-corba 1.7.9

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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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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

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[This is the first released version of the library GPL. It is
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1.760 yum-langpacks 0.4.2

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1.761 libdaemon 0.14

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1.762 regexp 2.7.1

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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1.770 tomcat-jdbc 9.0.37

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* /opt/cola/permits/1124923598_1611197988.26/0/redisson-tomcat-7-2-15-2-sources-1-jar/org/redisson/tomcat/UpdateValve.java
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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
  libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

1.778 cxf-services-wsn-core 3.4.0

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1.785 man-db 2.6.3 11.el7

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1.786 woodstox-core-asl 4.2.0

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* /opt/cola/permits/1136271552_1613726224.81/0/woodstox-core-asl-4-2-0-sources-2-jar/com/ctc/wstx/dtd/DFAStructValidator.java
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1.787 spring-tx 5.3.7

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* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/jca/support/SimpleBootstrapContext.java
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  jar/org/springframework/transaction/support/ResourceHolder.java
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/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/reactive/TransactionContextHolder.java

/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/TransactionManager.java

/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/StaticTransactionDefinition.java

/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java

/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/TransactionExecution.java

/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java

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/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/support/AbstractTransactionStatus.java

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/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java

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/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/interceptor/TransactionAttribute.java

/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java

/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java

/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/annotation/Propagation.java

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/opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/reactive/TransactionSynchronization.java
* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/reactive/TransactionContextManager.java
* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/reactive/TransactionContext.java
* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/reactive/GenericReactiveTransaction.java
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* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
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* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
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* /opt/cola/permits/1167717754_1621845479.2/0/spring-tx-5-3-7-sources-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any
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to distribute software through any other system and a licensee cannot
impose that choice.

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certain countries either by patents or by copyrighted interfaces, the
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an explicit geographical distribution limitation excluding those countries,
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but may differ in detail to address new problems or concerns.

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the Free Software Foundation.

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Software Foundation; we sometimes make exceptions for this. Our
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
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freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
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Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees” and
"recipients” may be individuals or organizations.
To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system.
(if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.
3. Protecting Users' Legal Rights From Anti-Circumvention Law.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

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@c ispell-local-pdict: "ispell-dict"
@c End:

1.791 error_prone_annotations 2.5.1
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1.792 vim 7.4.629-6.el7
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*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

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SUMMARY
*iccf* *ICCF*

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You can also sponsor the development of Vim. Vim sponsors can vote for
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- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

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==============================================================================
Kibaale Children's Centre
Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given.
Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.
USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt. For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children’s Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland” in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information: http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar”. Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others” below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
  Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
  Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

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vim:tw=78:ts=8:ft=help:norl:
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1.793 axis2-jaxbri 1.7.9

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CC) -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
1.810 nss-pem 1.0.3 5.el7

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1.813 cxf-xjc-dv 3.3.1

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1.814 curl 7.29.0 57.el7

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GnuTLS  http://www.gnutils.org/

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axTLS   http://axtls.sourceforge.net/

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

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zlib    http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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1.815 openjdk-jre 1.8.0u262
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 * Interface for providing AWS credentials. Implementations are free to use any
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*/

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/annotation/Beta.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/annotation/SdkInternalApi.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/annotation/SdkTestInternalApi.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/SdkSSLContext.java

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  jar/com/amazonaws/handlers/AsyncHandler.java
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  jar/com/amazonaws/util/StringMapBuilder.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
  jar/com/amazonaws/util/JodaTime.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/DateTimeJsonSerializer.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/handlers/IRequestHandler2.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/FakeIOException.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/FakeIOException.java
jar/com/amazonaws/util/CapacityManager.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/apache/client/impl/ApacheConnectionManagerFactory.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/config/ImmutableMapParameter.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/config/SignerConfigJsonHelper.java

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/SdkFilterOutputStream.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/regions/Region.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/Throwables.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWS4Signer.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/RegionAwareSigner.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java
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jar/com/amazonaws/ImmutableRequest.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/protocol/json/StructuredJsonGenerator.java

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/HttpMethodName.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWSCredentials.java
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jar/com/amazonaws/regions/ServiceAbbreviations.java
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jar/com/amazonaws/regions/Regions.java
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jar/com/amazonaws/util/Md5Utils.java
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*/
/**
* Interface for providing AWS region information. Implementations are free to use any strategy for
* providing region information.
*/

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryPolicy.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/EC2CredentialsFetcher.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryParameters.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/ConnectionUtils.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/EC2CredentialsUtils.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/ContainerCredentialsRetryPolicy.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryParameters.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/CredentialsEndpointProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/EC2ContainerCredentialsProviderWrapper.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/ContainerCredentialsProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWSSessionCredentials.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/metrics/MetricAdminMBean.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/metrics/MetricAdminMBean.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/jmx/spi/JmxInfoProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/json/Jackson.java

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/metrics/MetricAdminMBean.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/jmx/spi/JmxInfoProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/util/json/Jackson.java
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jar/com/amazonaws/util/ClassLoaderHelper.java
 * /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/jmx/ImxInfoProviderSupport.java
 * /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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 * /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/util/ServiceClientHolderInputStream.java
 * /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/jmx/spi/SdkMBeanRegistry.java
 * /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/RequestClientOptions.java

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/opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/event/request/Progress.java
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/opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/profile/internal/securitytoken/RoleInfo.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/auth/profile/ProfileCredentialsProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/util/LengthCheckInputStream.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/auth/internal/SignerConstants.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/event/DeliveryMode.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/ProfileCredentialsService.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/internal/SdkSSLSocket.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/auth/profile/internal/securitytoken/STSPProfileCredentialsServiceLoader.java
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jar/com/amazonaws/internal/SdkInputStream.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/auth/profile/internal/BasicProfileConfigLoader.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-
jar/com/amazonaws/event/ProgressTracker.java

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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/EC2MetadataClient.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/AWSCredentialsProviderChain.java
* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java
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* /opt/ cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/CRC32MismatchException.java
* /opt/ cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/internal/CustomBackoffStrategy.java
* /opt/ cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/http/IdleConnectionReaper.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/regions/RegionMetadataFactory.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1-jar/com/amazonaws/transform/SimpleTypeCborUnmarshallers.java
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* /opt/cola/permits/1136045064_1613664826.23/0/aws-java-sdk-core-1-11-61-sources-1.jar/com/amazonaws/util/NullResponseMetadataCache.java
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Gocheck - A rich testing framework for Go

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1.830 openam-audit-core 14.0.0-M6

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1.831 unzip 6.0 21.el7

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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

--------------------------------------------------------------------------

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1.833 jersey-guava 2.10.1

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/reflect/TypeResolver.java

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 */
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java
* /opt/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableRangeMap.java

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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/AbstractRangeSet.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/SortedIterable.java
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  * As of 2010/06/11, this method is identical to the (package private) hash
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  * /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/Element.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/cache/LongAddable.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/CharSink.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/io/CharSource.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/reflect/ClassPath.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/cache/LongAddables.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
jar/jersey/repackaged/com/google/common/collect/MapMaker.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/collection/Platform.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1.jar/jersey/repackaged/com/google/common/collect/ImmutableListMultimap.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ThreadFactoryBuilder.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/UncaughtExceptionHandlers.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ThreadFactoryBuilder.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/base/Strings.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/base/Ascii.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-jar/jersey/repackaged/com/google/common/collect/ForwardingImmutableCollection.java

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  jar/jersey/repackaged/com/google/common/base/FunctionalEquivalence.java
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* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
  jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1136687796_1613859500.91/0/jersey-guava-2-10-1-sources-1-
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* /opt/cola/permits/1211711693_1633621416.69/0/json-smart-2-1-1-sources-3-jar/net/minidev/json/writer/ArraysMapper.java
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* /opt/cola/permits/1211711693_1633621416.69/0/json-smart-2-1-1-sources-3-jar/net/minidev/json/JSONAware.java
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* /opt/cola/permits/1211711693_1633621416.69/0/json-smart-2-1-1-sources-3-jar/net/minidev/json/writer/BeansMapper.java
* /opt/cola/permits/1211711693_1633621416.69/0/json-smart-2-1-1-sources-3-
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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Pete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryssinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
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
Nieuwma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
1.841 sysv-init 2.86

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* /opt/ws_local/PERMITS_SQL/1007373481_1601397089.69/0/jackson-mapper-asl-1-9-9-sources-jar/org/codehaus/jackson/map/MappingJsonFactory.java

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  jar/io/netty/resolver/dns/package-info.java
* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
  jar/io/netty/resolver/dns/DnsQueryContext.java
* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
  jar/io/netty/resolver/dns/DnsNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
  jar/io/netty/resolver/dns/DnsServerAddresses.java
* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
  jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
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* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
  jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
  jar/io/netty/resolver/dns/DnsRecordResolveContext.java
* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068907556_1594468776.14/0/netty-resolver-dns-4-1-33-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1073009137_1595250178.83/0/netty-resolver-4-1-33-final-sources-1-jar/io/netty/resolver/AddressResolverGroup.java
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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#
#**************************************************************************************
#
# This file implements tests to verify that the "testable statements" in
# the lang_select.html document are correct.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

ifcapable !compound {
    finish_test
    return
}

do_execsql_test e_select-1.0 {
    CREATE TABLE t1(a, b);
    INSERT INTO t1 VALUES('a', 'one');
    INSERT INTO t1 VALUES('b', 'two');
    INSERT INTO t1 VALUES('c', 'three');

    CREATE TABLE t2(a, b);
    INSERT INTO t2 VALUES('a', 'I');
    INSERT INTO t2 VALUES('b', 'II');
INSERT INTO t2 VALUES('c', 'III');

CREATE TABLE t3(a, c);
INSERT INTO t3 VALUES('a', 1);
INSERT INTO t3 VALUES('b', 2);

CREATE TABLE t4(a, c);
INSERT INTO t4 VALUES('a', NULL);
INSERT INTO t4 VALUES('b', 2);
}
set t1_cross_t2 [list
  a one   a I      a one   b II     
  a one   c III    b two   a I      
  b two   b II     b two   c III     
  c three a I    c three b II    
  c three c III                     
]
set t1_cross_t1 [list
  a one   a one      a one   b two    
  a one   c three    b two   a one    
  b two   b two      b two   c three   
  c three a one    c three b two    
  c three c three                     
]

# This proc is a specialized version of [do_execsql_test].
#
# The second argument to this proc must be a SELECT statement that
# features a cross join of some time. Instead of the usual ",",
# "CROSS JOIN" or "INNER JOIN" join-op, the string %JOIN% must be
# substituted.
#
# This test runs the SELECT three times - once with:
#
#   * s/%JOIN%/,
#   * s/%JOIN%/JOIN/
#   * s/%JOIN%/INNER JOIN/
#   * s/%JOIN%/CROSS JOIN/
#
# and checks that each time the results of the SELECT are $res.
#
proc do_join_test {tn select res} {
  foreach {tn2 joinop} [list 1 ,  2 "CROSS JOIN"  3 "INNER JOIN"] {
    set S [string map [list %JOIN% $joinop] $select]
    uplevel do_execsql_test $tn.$tn2 [list $S] [list $res]
  }
}


The following tests check that all paths on the syntax diagrams on
the lang_select.html page may be taken.

# EVIDENCE-OF: R-11353-33501 -- syntax diagram join-constraint

do_join_test e_select-0.1.1 {
    SELECT count(*) FROM t1 %JOIN% t2 ON (t1.a=t2.a)
} {3}
do_join_test e_select-0.1.2 {
    SELECT count(*) FROM t1 %JOIN% t2 USING (a)
} {3}
do_join_test e_select-0.1.3 {
    SELECT count(*) FROM t1 %JOIN% t2
} {9}
do_catchsql_test e_select-0.1.4 {
    SELECT count(*) FROM t1, t2 ON (t1.a=t2.a) USING (a)
} {1 {cannot have both ON and USING clauses in the same join}}
do_catchsql_test e_select-0.1.5 {
    SELECT count(*) FROM t1, t2 USING (a) ON (t1.a=t2.a)
} {1 {near "ON": syntax error}}

# EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core

# 0: SELECT ...
# 1: SELECT DISTINCT ...
# 2: SELECT ALL ...
#
# 0: No FROM clause
# 1: Has FROM clause
#
# 0: No WHERE clause
# 1: Has WHERE clause
#
# 0: No GROUP BY clause
# 1: Has GROUP BY clause
# 2: Has GROUP BY and HAVING clauses
#
do_select_tests e_select-0.2 {
    0000.1 "SELECT 1, 2, 3 " {1 2 3}
    1000.1 "SELECT DISTINCT 1, 2, 3 " {1 2 3}
    2000.1 "SELECT ALL 1, 2, 3 " {1 2 3}

    0100.1 "SELECT a, b, a||b FROM t1 " {
        a one aone b two btwo c three cthree
    }
    1100.1 "SELECT DISTINCT a, b, a||b FROM t1 " {

a one aone b two btwo c three cthree
}
0010.1 "SELECT 1, 2, 3 WHERE 1 " { 1 2 3 }
0010.2 "SELECT 1, 2, 3 WHERE 0 " {}
0010.3 "SELECT 1, 2, 3 WHERE NULL " {}

1010.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 " { 1 2 3 }
2010.1 "SELECT ALL 1, 2, 3 WHERE 1 " { 1 2 3 }

0110.1 "SELECT a, b, a||b FROM t1 WHERE a!='x' " { a one aone b two btwo c three cthree }
0110.2 "SELECT a, b, a||b FROM t1 WHERE a=='x' " {}

1110.1 "SELECT DISTINCT a, b, a||b FROM t1 WHERE a!='x' " { a one aone b two btwo c three cthree }
2110.0 "SELECT ALL a, b, a||b FROM t1 WHERE a=='x' " {}

0001.1 "SELECT 1, 2, 3 GROUP BY 2 " { 1 2 3 }
0002.1 "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)=1 " { 1 2 3 }
0002.2 "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)>1 " {}

1001.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 " { 1 2 3 }
1002.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)=1 " { 1 2 3 }
1002.2 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)>1 " {}

2001.1 "SELECT ALL 1, 2, 3 GROUP BY 2 " { 1 2 3 }
2002.1 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)=1 " { 1 2 3 }
2002.2 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)>1 " {}

0101.1 "SELECT count(*), max(a) FROM t1 GROUP BY b" { 1 a 1 c 1 b }
0102.1 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" { 1 a 1 c 1 b }
0102.2 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

1101.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b" { 1 a 1 c 1 b }
1102.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" { 1 a 1 c 1 b }
1102.2 "SELECT DISTINCT count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=2" {
    }

2101.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b
2102.1 "SELECT ALL count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=1" {
    a 1 c 1 b
    }
2102.2 "SELECT ALL count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=2" {
    }

0011.1 "SELECT 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3
0012.1 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
0012.2 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)>1" {}

1011.1 "SELECT DISTINCT 1, 2, 3 WHERE 0 GROUP BY 2" {}
1012.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 GROUP BY 2 HAVING count(*)=1" {
        1 2 3
1012.2 "SELECT DISTINCT 1, 2, 3 WHERE NULL GROUP BY 2 HAVING count(*)>1" {}

2011.1 "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3
2012.1 "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
2012.2 "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" {}

0111.1 "SELECT count(*), max(a) FROM t1 WHERE a='a' GROUP BY b" {1 a
0112.1 "SELECT count(*), max(a) FROM t1
        WHERE a='c' GROUP BY b HAVING count(*)=1" {1 c
0112.2 "SELECT count(*), max(a) FROM t1
        WHERE 0 GROUP BY b HAVING count(*)=2" { }
1111.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a<'c' GROUP BY b" {
        1 a 1 b
1112.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a>'a'
        GROUP BY b HAVING count(*)=1" {
    1 c 1 b
}
1112.2 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE 0
        GROUP BY b HAVING count(*)=2" {
    }

2111.1 "SELECT ALL count(*), max(a) FROM t1 WHERE b>'one' GROUP BY b" {
    1 c 1 b
2112.1 "SELECT ALL count(*), max(a) FROM t1 WHERE a='b'
        GROUP BY b HAVING count(*)=1" {
    1 a 1 c
    }
2112.2 "SELECT ALL count(*), max(a) FROM t1
WHERE 0 GROUP BY b HAVING count(*)=2

# EVIDENCE-OF: R-41378-26734 -- syntax diagram result-column
#
# do_select_tests e_select-0.3 {
1  "SELECT * FROM t1" {a one b two c three}
2  "SELECT t1.* FROM t1" {a one b two c three}
3  "SELECT 'x'||a||'x' FROM t1" {xa xbx xcx}
4  "SELECT 'x'||a||'x' alias FROM t1" {xa xbx xcx}
5  "SELECT 'x'||a||'x' AS alias FROM t1" {xa xbx xcx}
}

# EVIDENCE-OF: R-43129-35648 -- syntax diagram join-source
#
# EVIDENCE-OF: R-36683-37460 -- syntax diagram join-op
#
# do_select_tests e_select-0.4 {
1  "SELECT t1.rowid FROM t1" {1 2 3}
2  "SELECT t1.rowid FROM t1,t2" {1 1 1 2 2 2 3 3 3}
3  "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3}
4  "SELECT t1.rowid FROM t1" {1 2 3}
5  "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 2 2 2 3 3 3}
6  "SELECT t1.rowid FROM t1 JOIN t2 JOIN t3"
   {1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3}
7  "SELECT t1.rowid FROM t1 NATURAL JOIN t3" {1 2}
8  "SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3" {1 2 3}
9  "SELECT t1.rowid FROM t1 NATURAL LEFT JOIN t3" {1 2 3}
10 "SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3" {1 2}
11 "SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3" {1 2}
12 "SELECT t1.rowid FROM t1 JOIN t3" {1 1 2 2 3 3}
13 "SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3" {1 1 2 2 3 3}
14 "SELECT t1.rowid FROM t1 LEFT JOIN t3" {1 1 2 2 3 3}
15 "SELECT t1.rowid FROM t1 INNER JOIN t3" {1 1 2 2 3 3}
16 "SELECT t1.rowid FROM t1 CROSS JOIN t3" {1 1 2 2 3 3}
}

# EVIDENCE-OF: R-28308-37813 -- syntax diagram compound-operator
#
# do_select_tests e_select-0.5 {
1  "SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4" {1 2 3 3 4}
2  "SELECT rowid FROM t1 UNION SELECT rowid+2 FROM t4" {1 2 3 4}
3  "SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4" {3}
4  "SELECT rowid FROM t1 EXCEPT SELECT rowid+2 FROM t4" {1 2}
do_select_tests e_select-0.6 {
  1  "SELECT b||a FROM t1 ORDER BY b||a"  {onea threec twob}
  2  "SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase"  {onea threec twob}
  3  "SELECT b||a FROM t1 ORDER BY (b||a) ASC"  {onea threec twob}
  4  "SELECT b||a FROM t1 ORDER BY (b||a) DESC"  {twob threec onea}
}

do_select_tests e_select-0.7 {
  1  "SELECT * FROM t1"  {a one b two c three}
  2  "SELECT * FROM t1 ORDER BY b"  {a one c three b two}
  3  "SELECT * FROM t1 ORDER BY b, a"  {a one c three b two}
  4  "SELECT * FROM t1 LIMIT 10"  {a one b two c three}
  5  "SELECT * FROM t1 LIMIT 10 OFFSET 5"  {}
  6  "SELECT * FROM t1 LIMIT 10, 5"  {}
  7  "SELECT * FROM t1 ORDER BY a LIMIT 10"  {a one b two c three}
  8  "SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5"  {}
  9  "SELECT * FROM t1 ORDER BY a,b LIMIT 10, 5"  {}
  10 "SELECT * FROM t1 UNION SELECT b, a FROM t1"  
    {a one b two c three one a three c two b}
  11 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b"  
    {a one b two c three one a three c two b}
  12 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a"  
    {a one b two c three one a three c two b}
  13 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10"  
    {a one b two c three one a three c two b}
  14 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5"  
    {two b}
  15 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5"  
    {}
  16 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a LIMIT 10"  
    {a one b two c three one a three c two b}
  17 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10 OFFSET 5"  
    {b two}
  18 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a,b LIMIT 10, 5"  
    {}
}

# The following tests focus on FROM clause (join) processing.
# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple
# SELECT statement, then the input data is implicitly a single row zero
# columns wide
#
do_select_tests e_select-1.1 {
  1 "SELECT 'abc'"  [abc]
  2 "SELECT 'abc' WHERE NULL" {}
  3 "SELECT NULL"  {{}}
  4 "SELECT count(*)"  {1}
  5 "SELECT count(*) WHERE 0" {0}
  6 "SELECT count(*) WHERE 1" {1}
}

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.
#
# The results of the SELECT queries suggest that they are operating on the
# contents of the table 'xx'.
#
do_execsql_test e_select-1.2.0 {
  CREATE TABLE xx(x, y);
  INSERT INTO xx VALUES('IiJIsIPepMuAhU', X'10B00B897A15BAA02E3F98DCE8F2');
  INSERT INTO xx VALUES(NULL, -16.87);
  INSERT INTO xx VALUES(-17.89, 'linguistically');
} {}
do_select_tests e_select-1.2 {
  1 "SELECT quote(x), quote(y) FROM xx" 
      'IiJIsIPepMuAhU' X'10B00B897A15BAA02E3F98DCE8F2'
      NULL -16.87
      -17.89 'linguistically'
  }
  2 "SELECT count(*), count(x), count(y) FROM xx" {3 2 3}
  3 "SELECT sum(x), sum(y) FROM xx" {-17.89 -16.87}
}

# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
# There are more detailed tests for subsequent requirements that add
# more detail to this idea. We just add a single test that shows that
# data is coming from each of the three tables following the FROM clause
# here to show that the statement, vague as it is, is not incorrect.
do_select_tests e_select-1.3 {
  1 "SELECT * FROM t1, t2, t3" {
    a one a 1 a 1 a one a 1 b 2 a one b II a 1
    a one b II b 2 a one c III a 1 a one c III b 2
    b two a 1 a 1 b two a 1 b 2 b two b II a 1
    b two b II b 2 b two c III a 1 b two c III b 2
    c three a I a 1 c three a 1 b 2 c three b II a 1
    c three b II b 2 c three c III a 1 c three c III b 2
  }
}

#
# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (","), and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
# The tests are built on this assertion. Really, they test that the output
# of a CROSS JOIN, JOIN, INNER JOIN or ",," join matches the expected result
# of calculating the cartesian product of the left and right-hand datasets.
#
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and ",," join operators.
#
# EVIDENCE-OF: R-07544-24155 The "CROSS JOIN" join operator produces the
# same data as the "INNER JOIN", "JOIN" and ",," operators
#
# All tests are run 4 times, with the only difference in each run being
# which of the 4 equivalent cartesian product join operators are used.
# Since the output data is the same in all cases, we consider that this
# qualifies as testing the two statements above.
#
do_execsql_test e_select-1.4.0 {
  CREATE TABLE x1(a, b);
  CREATE TABLE x2(c, d, e);
  CREATE TABLE x3(f, g, h, i);

-- x1: 3 rows, 2 columns
  INSERT INTO x1 VALUES(24, 'converging');
  INSERT INTO x1 VALUES(NULL, X'CB71');
  INSERT INTO x1 VALUES('blonds', 'proprietary');

-- x2: 2 rows, 3 columns
-- x3: 5 rows, 4 columns
INSERT INTO x3 VALUES(-39.24, NULL, 'encompass', -1);
INSERT INTO x3 VALUES('presenting', 51, 'reformation', 'dignified');
INSERT INTO x3 VALUES('conducting', -87.24, 37.56, NULL);
INSERT INTO x3 VALUES('coldest', -96, 'dramatists', 82.3);
INSERT INTO x3 VALUES('alerting', NULL, -93.79, NULL);

# EVIDENCE-OF: R-59089-25828 The columns of the cartesian product
# dataset are, in order, all the columns of the left-hand dataset
# followed by all the columns of the right-hand dataset.
#
do_join_test e_select-1.4.1.1 {
  SELECT * FROM x1 %JOIN% x2 LIMIT 1
} [concat {24 converging} {-60.06 {} {}}]

do_join_test e_select-1.4.1.2 {
  SELECT * FROM x2 %JOIN% x1 LIMIT 1
} [concat {-60.06 {} {}} {24 converging}]

do_join_test e_select-1.4.1.3 {
  SELECT * FROM x3 %JOIN% x2 LIMIT 1
} [concat {-60.06 {} {} } encompass -1] {-60.06 {} {}}

do_join_test e_select-1.4.1.4 {
  SELECT * FROM x2 %JOIN% x3 LIMIT 1
} [concat {-60.06 {} {}} {-39.24 {} encompass -1}]

# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product
# dataset formed by combining each unique combination of a row from the
# left-hand and right-hand datasets.
#
do_join_test e_select-1.4.2.1 {
  SELECT * FROM x2 %JOIN% x3
} [list -60.06 {} {} -39.24 {} encompass -1
  -60.06 {} {} presenting 51 reformation dignified
  -60.06 {} {} conducting -87.24 37.56
  -60.06 {} {} coldest -96 dramatists 82.3
  -60.06 {} {} alerting {} -93.79
  -58 {} 1.21 -39.24 {} encompass -1
  -58 {} 1.21 presenting 51 reformation dignified
  -58 {} 1.21 conducting -87.24 37.56
  -58 {} 1.21 coldest -96 dramatists 82.3
  -58 {} 1.21 alerting {} -93.79]
# TODO: Come back and add a few more like the above.

# EVIDENCE-OF: R-20659-43267 In other words, if the left-hand dataset 
# consists of Nlhs rows of Mlhs columns, and the right-hand dataset of 
# Nrhs rows of Mrhs columns, then the cartesian product is a dataset of 
# Nlhs.Nrhs rows, each containing Mlhs+Mrhs columns.

# x1, x2    (Nlhs=3, Nrhs=2)   (Mlhs=2, Mrhs=3)
do_join_test e_select-1.4.3.1 {
    SELECT count(*) FROM x1 %JOIN% x2
} [expr 3*2]
do_test e_select-1.4.3.2 {
    expr {{llength [execsql {SELECT * FROM x1, x2}] / 6}}
} [expr 2+3]

# x2, x3    (Nlhs=2, Nrhs=5)   (Mlhs=3, Mrhs=4)
do_join_test e_select-1.4.3.3 {
    SELECT count(*) FROM x2 %JOIN% x3
} [expr 2*5]
do_test e_select-1.4.3.4 {
    expr {{llength [execsql {SELECT * FROM x2 JOIN x3}] / 10}}
} [expr 3+4]

# x3, x1    (Nlhs=5, Nrhs=3)   (Mlhs=4, Mrhs=2)
do_join_test e_select-1.4.3.5 {
    SELECT count(*) FROM x3 %JOIN% x1
} [expr 5*3]
do_test e_select-1.4.3.6 {
    expr {{llength [execsql {SELECT * FROM x3 CROSS JOIN x1}] / 15}}
} [expr 4+2]

# x3, x3    (Nlhs=5, Nrhs=5)   (Mlhs=4, Mrhs=4)
do_join_test e_select-1.4.3.7 {
    SELECT count(*) FROM x3 %JOIN% x3
} [expr 5*5]
do_test e_select-1.4.3.8 {
    expr {{llength [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}]] / 25}}
} [expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y } $t1_cross_t1
do_select_tests e_select-1.4.5 [list
    1 { SELECT * FROM t1 CROSS JOIN t2 } $t1_cross_t2
    2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t1
    3 { SELECT * FROM t1 INNER JOIN t2 } $t1_cross_t2
}
# EVIDENCE-OF: R-22775-56496 If there is an ON clause specified, then
# the ON expression is evaluated for each row of the cartesian product
# as a boolean expression. All rows for which the expression evaluates
# to false are excluded from the dataset.
#
foreach [tn select res] [list
1 { SELECT * FROM t1 %JOIN% t2 ON (1) } $t1_cross_t2 \
2 { SELECT * FROM t1 %JOIN% t2 ON (0) } [list] \n3 { SELECT * FROM t1 %JOIN% t2 ON (NULL) } [list] \n4 { SELECT * FROM t1 %JOIN% t2 ON ('abc') } [list] \n5 { SELECT * FROM t1 %JOIN% t2 ON ('1ab') } $t1_cross_t2 \n6 { SELECT * FROM t1 %JOIN% t2 ON (0.9) } $t1_cross_t2 \n7 { SELECT * FROM t1 %JOIN% t2 ON ('0.9') } $t1_cross_t2 \n8 { SELECT * FROM t1 %JOIN% t2 ON (0.0) } [list] \n\n9 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = t2.a) } \n{one I two II three III} \n10 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = 'a') } \n{one I one II one III} \n11 { SELECT t1.b, t2.b 
FROM t1 %JOIN% t2 ON (CASE WHEN t1.a = 'a' THEN NULL ELSE 1 END) \n{two I two II two III three I three II three III} \n} 
do_join_test e_select-1.3.$tn $select $res
} 

# EVIDENCE-OF: R-63358-54862 If there is a USING clause specified as
# part of the join-constraint, then each of the column names specified
# must exist in the datasets to both the left and right of the join-op.
#
do_select_tests e_select-1.4 -error {
cannot join using column %s - column not present in both tables 
} 
1 { SELECT * FROM t1, t3 USING (b) } "b" 
2 { SELECT * FROM t3, t1 USING (c) } "c" 
3 { SELECT * FROM t3, (SELECT a AS b, b AS c FROM t1) USING (a) } "a"

# EVIDENCE-OF: R-55987-04584 For each pair of namesake columns, the
# expression "lhs.X = rhs.X" is evaluated for each row of the cartesian
# product as a boolean expression. All rows for which one or more of the
# expressions evaluates to false are excluded from the result set.
#
do_select_tests e_select-1.5 {

When comparing values as a result of a \texttt{USING} clause, the normal rules for handling affinities, collation sequences and NULL values in comparisons apply.

The column from the dataset on the left-hand side of the join operator is considered to be on the left-hand side of the comparison operator (=) for the purposes of collation sequence and affinity precedence.

For each pair of columns identified by a \texttt{USING} clause, the column from the right-hand dataset is omitted from the joined dataset.

This is the only difference between a \texttt{USING} clause and its equivalent \texttt{ON} constraint.

```
foreach {tn select res} {
  1 { SELECT * FROM t1 \%JOIN% t2 USING (a) } {a one I b two II c three III}
  2 { SELECT * FROM t1 \%JOIN% t2 ON (t1.a=t2.a) } {a one a I b two b II c three c III}
  2a { SELECT * FROM t3 \%JOIN% t4 USING (a) }
}{}
```
\{a 1 \} { b 2 2 \}

2b \{ SELECT * FROM t3 \%JOIN\% t4 ON (t3.a=t4.a) \} {a 1 a \} { b 2 b 2 \}

3a \{ SELECT * FROM t3 \%JOIN\% t4 USING (a,c) \} {b 2 \}
3b \{ SELECT * FROM t3 \%JOIN\% t4 ON (t3.a=t4.a AND t3.c=t4.c) \} {b 2 b 2 \}

4a \{ SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
\%JOIN\% t5 USING (a) \}
{aa cc cc bb DD dd}
4b \{ SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
\%JOIN\% t5 ON (x.a=t5.a) \}
{aa cc AA cc bb DD BB dd}
\}
do_join_test e_select-1.7.$tn $select $res

# EVIDENCE-OF: R-41434-12448 If the join-op is a "LEFT JOIN" or "LEFT
# OUTER JOIN", then after the ON or USING filtering clauses have been
# applied, an extra row is added to the output for each row in the
# original left-hand input dataset that corresponds to no rows at all in
# the composite dataset (if any).
#
do_execsql_test e_select-1.8.0 {
CREATE TABLE t7(a, b, c);
CREATE TABLE t8(a, d, e);

INSERT INTO t7 VALUES('x', 'ex', 24);
INSERT INTO t7 VALUES('y', 'why', 25);

INSERT INTO t8 VALUES('x', 'abc', 24);
INSERT INTO t8 VALUES('z', 'ghi', 26);
}

do_select_tests e_select-1.8 {
1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)" {2}
2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}
2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2}
}

# EVIDENCE-OF: R-15607-52988 The added rows contain NULL values in the
# columns that would normally contain values copied from the right-hand
# input dataset.
#
do_select_tests e_select-1.9 {
1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" { x ex 24 x abc 24}
1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
   {x ex 24 x abc 24 y why 25 {} {} {}}
2a "SELECT * FROM t7 JOIN t8 USING (a)" {x abc 24}
2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {} {}}
}

# EVIDENCE-OF: R-01809-52134 If the NATURAL keyword is added to any of
# the join-ops, then an implicit USING clause is added to the
# join-constraints. The implicit USING clause contains each of the
# column names that appear in both the left and right-hand input
# datasets.
#
do_select_tests e_select-1-10 {
  1a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
  1b "SELECT * FROM t7 NATURAL JOIN t8" {x ex 24 abc 24}
  2a "SELECT * FROM t8 JOIN t7 USING (a)" {x abc 24 ex 24}
  2b "SELECT * FROM t8 NATURAL JOIN t7" {x abc 24 ex 24}
  3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {} {}}
  3b "SELECT * FROM t7 NATURAL LEFT JOIN t8" {x ex 24 abc 24 y why 25 {} {} {}}
  4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)" {x ex 24 abc 24 z ghi 26 {} {} {}}
  4b "SELECT * FROM t8 NATURAL LEFT JOIN t7" {x ex 24 abc 24 z ghi 26 {} {} {}}
  5a "SELECT * FROM t3 JOIN t4 USING (a,c)" {b 2}
  5b "SELECT * FROM t3 NATURAL JOIN t4" {b 2}
  6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)" {a b 2}
  6b "SELECT * FROM t3 NATURAL LEFT JOIN t4" {a b 2}
}

# EVIDENCE-OF: R-49566-01570 If the left and right-hand input datasets
# feature no common column names, then the NATURAL keyword has no effect
# on the results of the join.
#
do_execsql_test e_select-1.11.0 {
  CREATE TABLE t10(x, y);
  INSERT INTO t10 VALUES(1, 'true');
  INSERT INTO t10 VALUES(0, 'false');
} {}

do_select_tests e_select-1-11 {
  1a "SELECT a, x FROM t1 CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
  1b "SELECT a, x FROM t1 NATURAL CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
}

# EVIDENCE-OF: R-39625-59133 A USING or ON clause may not be added to a
# join that specifies the NATURAL keyword.
foreach {tn sql} {
1 {SELECT * FROM t1 NATURAL LEFT JOIN t2 USING (a)}
2 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (t1.a=t2.a)}
3 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (45)}
}
do_catchsql_test e_select-1.12.$tn ">
$sql
" {1 {a NATURAL join may not have an ON or USING clause}}
}

# The next block of tests - e_select-3.* - concentrate on verifying
# statements made regarding WHERE clause processing.
#
drop_all_tables
do_execsql_test e_select-3.0 {
   CREATE TABLE x1(k, x, y, z);
   INSERT INTO x1 VALUES(1, 'relinquished', 'aphasia', 78.43);
   INSERT INTO x1 VALUES(2, X'A8E8D66F', X'07CF', -81);
   INSERT INTO x1 VALUES(3, -22, -27.57, NULL);
   INSERT INTO x1 VALUES(4, NULL, 'bygone', 'picky');
   INSERT INTO x1 VALUES(5, NULL, 96.28, NULL);
   INSERT INTO x1 VALUES(6, 0, 1, 2);

   CREATE TABLE x2(k, x, y);
   INSERT INTO x2 VALUES(1, 50, X'B82838');
   INSERT INTO x2 VALUES(5, 84.79, 65.88);
   INSERT INTO x2 VALUES(3, -22, X'0E1BE452A393');
   INSERT INTO x2 VALUES(7, 'mistrusted', 'standardized');
}

# EVIDENCE-OF: R-06999-14330 If a WHERE clause is specified, the WHERE
# expression is evaluated for each row in the input data as a boolean
# expression. All rows for which the WHERE clause expression evaluates
# to false are excluded from the dataset before continuing.
#
do_execsql_test e_select-3.1.1 { SELECT k FROM x1 WHERE x } {3}
do_execsql_test e_select-3.1.2 { SELECT k FROM x1 WHERE y } {3 5 6}
do_execsql_test e_select-3.1.3 { SELECT k FROM x1 WHERE z } {1 2 6}
do_execsql_test e_select-3.1.4 { SELECT k FROM x1 WHERE 'l'||z } {1 2 4 6}
do_execsql_test e_select-3.1.5 { SELECT k FROM x1 WHERE x IS NULL } {4 5}
do_execsql_test e_select-3.1.6 { SELECT k FROM x1 WHERE z - 78.43 } {2 4 6}

    do_execsql_test e_select-3.2.1a {
        SELECT k FROM x1 LEFT JOIN x2 USING(k)
    } {1 2 3 4 5 6}
do_execsql_test e_select-3.2.1b 

#
SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k
} {1 3 5}
do_execsql_test e_select-3.2.2 {
SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k IS NULL
} {2 4 6}
do_execsql_test e_select-3.2.3 {
SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}
do_execsql_test e_select-3.2.4 {
SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k-3
} {}

#--------------------------------------------------------------------------------------------
# Tests below this point are focused on verifying the testable statements
# related to calculating the result rows of a simple SELECT statement.
#
drop_all_tables
do_execsql_test e_select-4.0 {
CREATE TABLE z1(a, b, c);
CREATE TABLE z2(d, e);
CREATE TABLE z3(a, b);

INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
INSERT INTO z1 VALUES(-5, NULL, 75);
INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
INSERT INTO z1 VALUES(NULL, 67, 'quartets');
INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
INSERT INTO z1 VALUES(63, 'born', -26);

INSERT INTO z2 VALUES(NULL, 21);
INSERT INTO z2 VALUES(36, 6);

INSERT INTO z3 VALUES('subsistence', 'gauze');
INSERT INTO z3 VALUES(49.17, -67);
} {}

# EVIDENCE-OF: R-36327-17224 If a result expression is the special
# expression "*" then all columns in the input data are substituted for
# that one expression.
#
# EVIDENCE-OF: R-43693-30522 If the expression is the alias of a table
# or subquery in the FROM clause followed by ".*" then all columns from
# the named table or subquery are substituted for the single expression.
#
do_select_tests e_select-4.1 {
1 "SELECT * FROM z1 LIMIT 1" {51.65 -59.58 belfries}
2 "SELECT * FROM z1,z2 LIMIT 1" {51.65 -59.58 belfries \{21
3 "SELECT z1.* FROM z1,z2 LIMIT 1" {51.65 -59.58 belfries
4 "SELECT z2.* FROM z1,z2 LIMIT 1" {\{} 21
5 "SELECT z2.*, z1.* FROM z1,z2 LIMIT 1" {\{} 21 51.65 -59.58 belfries\}

6 "SELECT count(*), * FROM z1" {6 63 born -26
7 "SELECT max(a), * FROM z1" {63 63 born -26
8 "SELECT *, min(a) FROM z1" {\{-5 \} 75 -5

9 "SELECT *,* FROM z1,z2 LIMIT 1" {51.65 -59.58 belfries \{21 51.65 -59.58 belfries \{21

10 "SELECT z1.*,z1.* FROM z2,z1 LIMIT 1" {51.65 -59.58 belfries 51.65 -59.58 belfries

# EVIDENCE-OF: R-61869-22578 It is an error to use a "*" or "alias.*" expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or "alias.*" expression in a simple SELECT query that does not have a
# FROM clause.
#
foreach {tn select err} {
1.1 "SELECT a, b, c FROM z1 WHERE *" {near "*": syntax error
1.2 "SELECT a, b, c FROM z1 GROUP BY *" {near "*": syntax error
1.3 "SELECT 1 + * FROM z1" {near "*": syntax error
1.4 "SELECT * + 1 FROM z1" {near "+": syntax error

2.1 "SELECT *" {no tables specified}
2.2 "SELECT * WHERE 1" {no tables specified
2.3 "SELECT * WHERE 0" {no tables specified
2.4 "SELECT count(*), *" {no tables specified
}
do_catchsql_test e_select-4.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-08669-22397 The number of columns in the rows returned
# by a simple SELECT statement is equal to the number of expressions in
# the result expression list after substitution of * and alias.*
# expressions.
#
foreach {tn select nCol} {
1 "SELECT * FROM z1" 3
2 "SELECT * FROM z1 NATURAL JOIN z3" 3
3 "SELECT z1.* FROM z1 NATURAL JOIN z3" 3
4 "SELECT z3.* FROM z1 NATURAL JOIN z3" 2

5  "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3"  
6  "SELECT 1, 2, z1.* FROM z1"  
7  "SELECT a, *, b, c FROM z1"  
} 
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
do_test e_select-4.3.Stn { sqlite3_column_count $::stmt } $nColsqlite3_finalize $::stmt

# In lang_select.html, a non-aggregate query is defined as any simple SELECT
# that has no GROUP BY clause and no aggregate expressions in the result
# expression list. Other queries are aggregate queries. Test cases
# e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of
# simple SELECT that is different for aggregate and non-aggregate queries
# verify (in a way) that these definitions are consistent:
#
# EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate
# query if it contains either a GROUP BY clause or one or more aggregate
# functions in the result-set.
#
# EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no
# aggregate functions or a GROUP BY clause, it is a non-aggregate query.
#
# EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate
# query, then each expression in the result expression list is evaluated
# for each row in the dataset filtered by the WHERE clause.
#
do_select_tests e_select-4.4 {
  1 "SELECT a, b FROM z1"
    {51.65 -59.58 -5 {} -2.2 -23.18 {} 67 -1.04 -32.3 63 born}
  2 "SELECT a IS NULL, b+1, * FROM z1" {0 -58.58   51.65 -59.58 belfries
    0 {}       -5 {} 75
    0 -22.18   -2.2 -23.18 suiters
    1 68       {} 67 quartets
    0 -31.3    -1.04 -32.3 aspen
    0 1        63 born -26}
  3 "SELECT 32*32, d||e FROM z2" {1024 {} 1024 366}
}

# Test cases e_select-4.5.* and e_select-4.6.* together show that:
The single row of result-set data created by evaluating the aggregate and non-aggregate expressions in the result-set forms the result of an aggregate query without a GROUP BY clause.

If the SELECT statement is an aggregate query without a GROUP BY clause, then each aggregate expression in the result-set is evaluated once across the entire dataset.

Each non-aggregate expression in the result-set is evaluated once for an arbitrarily selected row of the dataset.

The same arbitrarily selected row is used for each non-aggregate expression.

Note: The results of many of the queries in this block of tests are technically undefined, as the documentation does not specify which row SQLite will arbitrarily select to use for the evaluation of the non-aggregate expressions.

drop_all_tables

do_execsql_test e_select-4.6.0 {
  CREATE TABLE a1(one PRIMARY KEY, two);
  INSERT INTO a1 VALUES(1, 1);
  INSERT INTO a1 VALUES(2, 3);
  INSERT INTO a1 VALUES(3, 6);
  INSERT INTO a1 VALUES(4, 10);
  CREATE TABLE a2(one PRIMARY KEY, three);
  INSERT INTO a2 VALUES(1, 1);
  INSERT INTO a2 VALUES(3, 2);
  INSERT INTO a2 VALUES(6, 3);
  INSERT INTO a2 VALUES(10, 4);
} {}

do_select_tests e_select-4.6 {
  1 "SELECT one, two, count(*) FROM a1" {4 10 4}
}
2 "SELECT one, two, count(*) FROM a1 WHERE one<3" [2 3 2]
3 "SELECT one, two, count(*) FROM a1 WHERE one>3" [4 10 1]
4 "SELECT *, count(*) FROM a1 JOIN a2" [4 10 10 4 16]
5 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2" [3 6 2 3]
6 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2" [3 6 2 3]
7 "SELECT group_concat(three, "),", a1.* FROM a1 NATURAL JOIN a2" [12 3 6]"

# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
# entirely of NULL values.
#
do_select_tests e_select-4.7 {
1  "SELECT one, two, count(*) FROM a1 WHERE 0" {{} {} 0}
2  "SELECT sum(two), * FROM a1, a2 WHERE three>5" {{} {} {} {} {}}
3  "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7" { 1 1 1 }
}

# EVIDENCE-OF: R-64138-28774 An aggregate query without a GROUP BY
# clause always returns exactly one row of data, even if there are zero
# rows of input data.
#
foreach {tn select} {
8.1  "SELECT count(*) FROM a1"
8.2  "SELECT count(*) FROM a1 WHERE 0"
8.3  "SELECT count(*) FROM a1 WHERE 1"
8.4  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 1"
8.5  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 0"
} {
# Set $nRow to the number of rows returned by $select:
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
set nRow 0
while {"SQLITE_ROW" == [sqlite3_step ::stmt]} { incr nRow }
set rc [sqlite3_finalize ::stmt]

# Test that $nRow==1 and that statement execution was successful
# (rc==SQLITE_OK).
do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}

drop_all_tables
do_execsql_test e_select-4.9.0 {
CREATE TABLE b1(one PRIMARY KEY, two);
INSERT INTO b1 VALUES(1, 'o');
INSERT INTO b1 VALUES(4, 'f');
INSERT INTO b1 VALUES(3, 't');
CREATE TABLE b1 VALUES(2, 't');
CREATE TABLE b2(x, y);
CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);

# EVIDENCE-OF: R-57754-57109 If the SELECT statement is an aggregate
# query with a GROUP BY clause, then each of the expressions specified
# as part of the GROUP BY clause is evaluated for each row of the
# dataset. Each row is then assigned to a "group" based on the results;
# rows for which the results of evaluating the GROUP BY expressions are
# the same are assigned to the same group.
#
# These tests also show that the following is not untrue:
#
# EVIDENCE-OF: R-25883-55063 The expressions in the GROUP BY clause do
# not have to be expressions that appear in the result.
#
# do_select_tests e_select-4.9 {
1  "SELECT group_concat(one), two FROM b1 GROUP BY two" {
   #,## f 1 o #,## s #,## t/
} 2  "SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {
   1,2,3,4 10 5,6,7 18
} 3  "SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" {
   1 5 2,6 3,7
} 4  "SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" {
   4,3,5,6 1,2
} }

# EVIDENCE-OF: R-14926-50129 For the purposes of grouping rows, NULL
# values are considered equal.
# do_select_tests e_select-4.10 {
  1 "SELECT group_concat(y) FROM b2 GROUP BY x" {#/ 3 #/}
  2 "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END" {4 1}
}

# EVIDENCE-OF: R-10470-30318 The usual rules for selecting a collation
# sequence with which to compare text values apply when evaluating
# expressions in a GROUP BY clause.
#
# do_select_tests e_select-4.11 {
  1 "SELECT count(*) FROM b3 GROUP BY b" {1 1 1 1}
  2 "SELECT count(*) FROM b3 GROUP BY a" {2 2}
  3 "SELECT count(*) FROM b3 GROUP BY +b" {1 1 1 1}
  4 "SELECT count(*) FROM b3 GROUP BY +a" {2 2}
  5 "SELECT count(*) FROM b3 GROUP BY b||''" {1 1 1 1}
  6 "SELECT count(*) FROM b3 GROUP BY a||''" {1 1 1 1}
}

# EVIDENCE-OF: R-63573-50730 The expressions in a GROUP BY clause may
# not be aggregate expressions.
#
# foreach {tn select} {
  12.1 "SELECT * FROM b3 GROUP BY count(*)"
  12.2 "SELECT max(a) FROM b3 GROUP BY max(b)"
  12.3 "SELECT group_concat(a) FROM b3 GROUP BY a, max(b)"
} {
  set res {1 {aggregate functions are not allowed in the GROUP BY clause}}
  do_catchsql_test e_select-4.$tn $select $res
}

# EVIDENCE-OF: R-31537-00101 If a HAVING clause is specified, it is
# evaluated once for each group of rows as a boolean expression. If the
# result of evaluating the HAVING clause is false, the group is
discarded.
#
# This requirement is tested by all e_select-4.13.* tests.
#
# EVIDENCE-OF: R-04132-09474 If the HAVING clause is an aggregate
# expression, it is evaluated across all rows in the group.
#
# Tested by e_select-4.13.1.*
#
# EVIDENCE-OF: R-28262-47447 If a HAVING clause is a non-aggregate
# expression, it is evaluated with respect to an arbitrarily selected
# row from the group.
#
# Tested by e_select-4.13.2.*
Tests in this block also show that this is not untrue:

EVIDENCE-OF: R-55403-13450 The HAVING expression may refer to values, even aggregate functions, that are not in the result.

```
do_execsql_test e_select-4.13.0 {
    CREATE TABLE c1(up, down);
    INSERT INTO c1 VALUES('x', 1);
    INSERT INTO c1 VALUES('x', 2);
    INSERT INTO c1 VALUES('x', 4);
    INSERT INTO c1 VALUES('x', 8);
    INSERT INTO c1 VALUES('y', 16);
    INSERT INTO c1 VALUES('y', 32);

    CREATE TABLE c2(i, j);
    INSERT INTO c2 VALUES(1, 0);
    INSERT INTO c2 VALUES(2, 1);
    INSERT INTO c2 VALUES(3, 3);
    INSERT INTO c2 VALUES(4, 6);
    INSERT INTO c2 VALUES(5, 10);
    INSERT INTO c2 VALUES(6, 15);
    INSERT INTO c2 VALUES(7, 21);
    INSERT INTO c2 VALUES(8, 28);
    INSERT INTO c2 VALUES(9, 36);

    CREATE TABLE c3(i PRIMARY KEY, k TEXT);
    INSERT INTO c3 VALUES(1, 'hydrogen');
    INSERT INTO c3 VALUES(2, 'helium');
    INSERT INTO c3 VALUES(3, 'lithium');
    INSERT INTO c3 VALUES(4, 'beryllium');
    INSERT INTO c3 VALUES(5, 'boron');
    INSERT INTO c3 VALUES(94, 'plutonium');
}{}

do_select_tests e_select-4.13 {
    1.1 "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" {x}
    1.2 "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" {y}
    1.3 "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" {x}
    1.4 "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" {x4}

    2.1 "SELECT up FROM c1 GROUP BY up HAVING down>10" {y}
    2.2 "SELECT up FROM c1 GROUP BY up HAVING up='y'" {y}

    2.3 "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6" {9 36}
}{}

EVIDENCE-OF: R-23927-54081 Each expression in the result-set is then
# evaluated once for each group of rows.
#
# EVIDENCE-OF: R-53735-47017 If the expression is an aggregate
# expression, it is evaluated across all rows in the group.
#
do_select_tests e_select-4.15 {
  1  "SELECT sum(down) FROM c1 GROUP BY up" {15 48}
  2  "SELECT sum(j), max(j) FROM c2 GROUP BY (i%3)" {54 36 27 21 39 28}
  3  "SELECT sum(j), max(j) FROM c2 GROUP BY (j%2)" {80 36 40 21}
  4  "SELECT 1+sum(j), max(j)+1 FROM c2 GROUP BY (j%2)" {81 37 41 22}
  5  "SELECT count(*), round(avg(i),2) FROM c1, c2 ON (i=down) GROUP BY j%2"
      {3 4.33 1 2.0}
}

# EVIDENCE-OF: R-62913-19830 Otherwise, it is evaluated against a single
# arbitrarily chosen row from within the group.
#
# EVIDENCE-OF: R-53924-08809 If there is more than one non-aggregate
# expression in the result-set, then all such expressions are evaluated
# for the same row.
#
do_select_tests e_select-4.15 {
  1  "SELECT i, j FROM c2 GROUP BY i%2" {8 28 9 36}
  2  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j<30" {8 28}
  3  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
  4  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
  5  "SELECT count(*), i, k FROM c2 NATURAL JOIN c3 GROUP BY substr(k, 1, 1)"
      {2 5 boron   2 2 helium   1 3 lithium}
}

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows
# contributes a single row to the set of result rows.
#
# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
# with a GROUP BY clause is the same as the number of groups of rows
# produced by applying the GROUP BY and HAVING clauses to the filtered
# input dataset.
#do_select_tests e_select.4.16 -count {
#  1  "SELECT i, j FROM c2 GROUP BY i%2" 2
#  2  "SELECT i, j FROM c2 GROUP BY i" 9
#  3  "SELECT i, j FROM c2 GROUP BY i HAVING i<5" 4
#}

#---------------------------------------------------------------
# The following tests attempt to verify statements made regarding the ALL
# and DISTINCT keywords.
# drop_all_tables
do_execsql_test e_select-5.1.0 {
  CREATE TABLE h1(a, b);
  INSERT INTO h1 VALUES(1, 'one');
  INSERT INTO h1 VALUES(1, 'I');
  INSERT INTO h1 VALUES(1, 'i');
  INSERT INTO h1 VALUES(4, 'four');
  INSERT INTO h1 VALUES(4, 'IV');
  INSERT INTO h1 VALUES(4, 'iv');
  CREATE TABLE h2(x COLLATE nocase);
  INSERT INTO h2 VALUES('One');
  INSERT INTO h2 VALUES('Two');
  INSERT INTO h2 VALUES('Three');
  INSERT INTO h2 VALUES('Four');
  INSERT INTO h2 VALUES('one');
  INSERT INTO h2 VALUES('two');
  INSERT INTO h2 VALUES('three');
  INSERT INTO h2 VALUES('four');
  CREATE TABLE h3(c, d);
  INSERT INTO h3 VALUES(1, NULL);
  INSERT INTO h3 VALUES(2, NULL);
  INSERT INTO h3 VALUES(3, NULL);
  INSERT INTO h3 VALUES(4, '2');
  INSERT INTO h3 VALUES(5, NULL);
  INSERT INTO h3 VALUES(6, '2,3');
  INSERT INTO h3 VALUES(7, NULL);
  INSERT INTO h3 VALUES(8, '2,4');
  INSERT INTO h3 VALUES(9, '3');
}

# EVIDENCE-OF: R-60770-10612 One of the ALL or DISTINCT keywords may
# follow the SELECT keyword in a simple SELECT statement.
#
do_select_tests e_select-5.1 {
  1 "SELECT ALL a FROM h1" {1 1 4 4 4}
  2 "SELECT DISTINCT a FROM h1" {1 4}
}

# EVIDENCE-OF: R-08861-34280 If the simple SELECT is a SELECT ALL, then
# the entire set of result rows are returned by the SELECT.
#
# EVIDENCE-OF: R-47911-02086 If neither ALL or DISTINCT are present,
# then the behavior is as if ALL were specified.
#
# EVIDENCE-OF: R-14442-41305 If the simple SELECT is a SELECT DISTINCT,
Then duplicate rows are removed from the set of result rows before it is returned.

The three testable statements above are tested by e_select-5.2.*, 5.3.* and 5.4.* respectively.

do_select_tests e_select-5 {
  3.1 "SELECT ALL x FROM h2" {One Two Three Four one two three four}
  3.2 "SELECT ALL x FROM h1, h2 ON (x=b)" {One one Four four}

  3.1 "SELECT x FROM h2" {One Two Three Four one two three four}
  3.2 "SELECT x FROM h1, h2 ON (x=b)" {One one Four four}

  4.1 "SELECT DISTINCT x FROM h2" {One Two Three Four}
  4.2 "SELECT DISTINCT x FROM h1, h2 ON (x=b)" {One Four}
}

For the purposes of detecting duplicate rows, two NULL values are considered to be equal.

do_select_tests e_select-5.5 {
  1  "SELECT DISTINCT d FROM h3" {{} 2 2,3 2,4 3}
}

The normal rules for selecting a collation sequence to compare text values with apply.

do_select_tests e_select-5.6 {
  1  "SELECT DISTINCT b FROM h1" {one i four IV iv}
  2  "SELECT DISTINCT b COLLATE nocase FROM h1" {one i four IV}
  3  "SELECT DISTINCT x FROM h2" {One Two Three Four}
  4  "SELECT DISTINCT x COLLATE binary FROM h2" {
      One Two Three Four one two three four

}

The following tests - e_select-7.* - test that statements made to do with compound SELECT statements are correct.

In a compound SELECT, all the constituent SELECTs must return the same number of result columns.

All the other tests in this section use compound SELECTs created using component SELECTs that do return the same number of columns.

So the tests here just show that it is an error to attempt otherwise.
drop_all_tables

do_execsql_test e_select-7.1.0 {
    CREATE TABLE j1(a, b, c);
    CREATE TABLE j2(e, f);
    CREATE TABLE j3(g);
}

do_select_tests e_select-7.1 -error {
    SELECTs to the left and right of %s do not have the same number of result columns
    
    1  "SELECT a, b FROM j1    UNION ALL SELECT g FROM j3"   {{UNION ALL}}
    2  "SELECT * FROM j1 UNION ALL SELECT * FROM j3"    {{UNION ALL}}
    3  "SELECT a, b FROM j1 UNION ALL SELECT g FROM j3"   {{UNION ALL}}
    4  "SELECT a, b FROM j1 UNION ALL SELECT * FROM j3,j2" {{UNION ALL}}
    5  "SELECT * FROM j3,j2 UNION ALL SELECT a, b FROM j1" {{UNION ALL}}
    6  "SELECT a, b FROM j1 UNION SELECT g FROM j3"        {UNION}
    7  "SELECT * FROM j1 UNION SELECT * FROM j3"        {UNION}
    8  "SELECT a, b FROM j1 UNION SELECT g FROM j3"        {UNION}
    9  "SELECT a, b FROM j1 UNION SELECT * FROM j3,j2"     {UNION}
   10  "SELECT * FROM j3,j2 UNION SELECT a, b FROM j1"     {UNION}
   11  "SELECT a, b FROM j1 INTERSECT SELECT g FROM j3"    {INTERSECT}
   12  "SELECT * FROM j1 INTERSECT SELECT * FROM j3"    {INTERSECT}
   13  "SELECT a, b FROM j1 INTERSECT SELECT g FROM j3"    {INTERSECT}
   14  "SELECT a, b FROM j1 INTERSECT SELECT * FROM j3,j2" {INTERSECT}
   15  "SELECT * FROM j3,j2 INTERSECT SELECT a, b FROM j1" {INTERSECT}
   16  "SELECT a, b FROM j1 EXCEPT SELECT g FROM j3"       {EXCEPT}
   17  "SELECT * FROM j1 EXCEPT SELECT * FROM j3"       {EXCEPT}
   18  "SELECT a, b FROM j1 EXCEPT SELECT g FROM j3"       {EXCEPT}
   19  "SELECT a, b FROM j1 EXCEPT SELECT * FROM j3,j2"    {EXCEPT}
   20  "SELECT * FROM j3,j2 EXCEPT SELECT a, b FROM j1"    {EXCEPT}
    
    # EVIDENCE-OF: R-01450-11152 As the components of a compound SELECT must
    # be simple SELECT statements, they may not contain ORDER BY or LIMIT
    # clauses.
    #
    foreach {tn select op1 op2} {
    1  "SELECT * FROM j1 ORDER BY a UNION ALL SELECT * FROM j2,j3"     
       {ORDER BY} {UNION ALL}
    2  "SELECT count(*) FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2" 
       {ORDER BY} {UNION ALL}
    3  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *,* FROM j2" 
       {ORDER BY} {UNION ALL}
    4  "SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j2,j3"     
       LIMIT {UNION ALL}
    5  "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION ALL SELECT * FROM j2,j3"
LIMIT {UNION ALL}
6 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION ALL SELECT g FROM j2,j3"
   LIMIT {UNION ALL}

7 "SELECT * FROM j1 ORDER BY a UNION SELECT * FROM j2,j3"
   {ORDER BY} {UNION}
8 "SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"
   {ORDER BY} {UNION}
9 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"
   {ORDER BY} {UNION}
10 "SELECT * FROM j1 LIMIT 10 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
11 "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
12 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"
    LIMIT {UNION}

13 "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"
   {ORDER BY} {EXCEPT}
14 "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"
   {ORDER BY} {EXCEPT}
15 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *,* FROM j2"
   {ORDER BY} {EXCEPT}
16 "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
17 "SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
18 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"
    LIMIT {EXCEPT}

19 "SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
   {ORDER BY} {INTERSECT}
20 "SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
   {ORDER BY} {INTERSECT}
21 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 INTERSECT SELECT *,* FROM j2"
   {ORDER BY} {INTERSECT}
22 "SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3"
    LIMIT {INTERSECT}
23 "SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3"
    LIMIT {INTERSECT}
24 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) INTERSECT SELECT g FROM j2,j3"
    LIMIT {INTERSECT}

} {
   set err "$op1 clause should come after $op2 not before"
do_catchsql_test e_select-7.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach {tn select} {
1   "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
2   "SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"
3   "SELECT count(*), * FROM j1 UNION ALL SELECT *,* FROM j2 ORDER BY 1,2,3"
4   "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"
5   "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
6   "SELECT a FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"
7   "SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"
8   "SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"
9   "SELECT count(*), * FROM j1 UNION SELECT *,* FROM j2 ORDER BY 1,2,3"
10  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"
11  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
12  "SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"
13  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"
14  "SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"
15  "SELECT count(*), * FROM j1 EXCEPT SELECT *,* FROM j2 ORDER BY 1,2,3"
16  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"
17  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
18  "SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
19  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"
20  "SELECT count(*) FROM j1 INTERSECT SELECT max(e) FROM j2 ORDER BY 1"
21  "SELECT count(*), * FROM j1 INTERSECT SELECT *,* FROM j2 ORDER BY 1,2,3"
22  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"
23  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
24  "SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
} {
   do_test e_select-7.3.$tn \{ catch \{execsql $select\} msg \} 0
}

# EVIDENCE-OF: R-08531-36543 A compound SELECT created using UNION ALL
# operator returns all the rows from the SELECT to the left of the UNION
# ALL operator, and all the rows from the SELECT to the right of it.
#
drop_all_tables
do_execsql_test e_select-7.4.0 {
   CREATE TABLE q1(a TEXT, b INTEGER, c);
   CREATE TABLE q2(d NUMBER, e BLOB);
   CREATE TABLE q3(f REAL, g);

   INSERT INTO q1 VALUES(16, -87.66, NULL);
   INSERT INTO q1 VALUES('legible', 94, -42.47);
   INSERT INTO q1 VALUES('beauty', 36, NULL);
INSERT INTO q2 VALUES('legible', 1);
INSERT INTO q2 VALUES('beauty', 2);
INSERT INTO q2 VALUES(-65.91, 4);
INSERT INTO q2 VALUES('emanating', -16.56);

INSERT INTO q3 VALUES('beauty', 2);
INSERT INTO q3 VALUES('beauty', 2);
}
}
do_select_tests e_select-7.4 {
1   {SELECT a FROM q1 UNION ALL SELECT d FROM q2}
   {16 legible beauty legible beauty -65.91 emanating}

2   {SELECT * FROM q1 WHERE a=16 UNION ALL SELECT 'x', * FROM q2 WHERE oid=1}
   {16 -87.66 {} x legible 1}

3   {SELECT count(*) FROM q1 UNION ALL SELECT min(e) FROM q2}
   {3 -16.56}

4   {SELECT * FROM q2 UNION ALL SELECT * FROM q3}
   {legible 1 beauty 2 -65.91 4 emanating -16.56 beauty 2 beauty 2}
}

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as
# UNION ALL, except that duplicate rows are removed from the final
# result set.
#

do_select_tests e_select-7.5 {
1   {SELECT a FROM q1 UNION SELECT d FROM q2}
   {-65.91 16 beauty emanating legible}

2   {SELECT * FROM q1 WHERE a=16 UNION SELECT 'x', * FROM q2 WHERE oid=1}
   {16 -87.66 {} x legible 1}

3   {SELECT count(*) FROM q1 UNION SELECT min(e) FROM q2}
   {-16.56 3}

4   {SELECT * FROM q2 UNION SELECT * FROM q3}
   {-65.91 4 beauty 2 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the
# intersection of the results of the left and right SELECTs.
#
do_select_tests e_select-7.6 {
1   {SELECT a FROM q1 INTERSECT SELECT d FROM q2} {beauty legible}
2   {SELECT * FROM q2 INTERSECT SELECT * FROM q3} {beauty 2}
}
# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of rows returned by the left SELECT that are not also returned by the right-hand SELECT.

#
do_select_tests e_select-7.7 {
  1   {SELECT a FROM q1 EXCEPT SELECT d FROM q2} {16}
  2   {SELECT * FROM q2 EXCEPT SELECT * FROM q3}
      {-65.91 4 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-40729-56447 Duplicate rows are removed from the results of INTERSECT and EXCEPT operators before the result set is returned.

#
do_select_tests e_select-7.8 {
  0   {SELECT * FROM q3} {beauty 2 beauty 2}
  1   {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
  2   {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1}  {beauty 2}
}

# EVIDENCE-OF: R-46765-43362 For the purposes of determining duplicate rows for the results of compound SELECT operators, NULL values are considered equal to other NULL values and distinct from all non-NULL values.

#
db nullvalue null
do_select_tests e_select-7.9 {
  1   {SELECT NULL UNION ALL SELECT NULL} {null null}
  2   {SELECT NULL UNION SELECT NULL} {null}
  3   {SELECT NULL INTERSECT SELECT NULL} {null}
  4   {SELECT NULL EXCEPT SELECT NULL} {}
  5   {SELECT NULL UNION ALL SELECT 'ab'} {null ab}
  6   {SELECT NULL UNION SELECT 'ab'} {null ab}
  7   {SELECT NULL INTERSECT SELECT 'ab'} {}
  8   {SELECT NULL EXCEPT SELECT 'ab'} {null}
  9   {SELECT NULL UNION ALL SELECT 0} {null 0}
 10  {SELECT NULL UNION SELECT 0} {null 0}
 11  {SELECT NULL INTERSECT SELECT 0} {}
 12  {SELECT NULL EXCEPT SELECT 0} {null}
 13  {SELECT c FROM q1 UNION ALL SELECT g FROM q3} {null -42.47 null 2 2}
 14  {SELECT c FROM q1 UNION SELECT g FROM q3} {null -42.47 2}
 15  {SELECT c FROM q1 INTERSECT SELECT g FROM q3} {}
 16  {SELECT c FROM q1 EXCEPT SELECT g FROM q3} {null -42.47}
The collation sequence used to compare two text values is determined as if the columns of the left and right-hand # SELECT statements were the left and right-hand operands of the equals (=) operator, except that greater precedence is not assigned to a # collation sequence specified with the postfix COLLATE operator.

```
drop_all_tables
do_execsql_test e_select-7.10.0 {
  CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
  INSERT INTO y1 VALUES('Abc', 'abc', 'aBC');
} {}
do_select_tests e_select-7.10 {
  1 {SELECT 'abc' UNION SELECT 'ABC'} {ABC abc}
  2 {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC'} {ABC}
  3 {SELECT 'abc' UNION SELECT 'ABC' COLLATE nocase} {ABC}
  4 {SELECT 'abc' COLLATE binary UNION SELECT 'ABC' COLLATE nocase} {ABC abc}
  5 {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' COLLATE binary} {ABC}
  6 {SELECT a FROM y1 UNION SELECT b FROM y1} {abc}
  7 {SELECT b FROM y1 UNION SELECT a FROM y1} {Abc abc}
  8 {SELECT a FROM y1 UNION SELECT c FROM y1} {aBC}
  9 {SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1} {aBC}
}
```

No affinity transformations are applied to any values when comparing rows as part of a compound SELECT.

```
drop_all_tables
do_execsql_test e_select-7.10.0 {
  CREATE TABLE w1(a TEXT, b NUMBER);
  CREATE TABLE w2(a, b TEXT);
  INSERT INTO w1 VALUES('1', 4.1);
  INSERT INTO w2 VALUES(1, 4.1);
} {}
do_select_tests e_select-7.11 {
  1 {SELECT a FROM w1 UNION SELECT a FROM w2} {1 1}
  2 {SELECT a FROM w2 UNION SELECT a FROM w1} {1 1}
  3 {SELECT b FROM w1 UNION SELECT b FROM w2} {4.1 4.1}
  4 {SELECT b FROM w2 UNION SELECT b FROM w1} {4.1 4.1}
  5 {SELECT a FROM w1 INTERSECT SELECT a FROM w2} {}
  6 {SELECT a FROM w2 INTERSECT SELECT a FROM w1} {}
  7 {SELECT b FROM w1 INTERSECT SELECT b FROM w2} {}
}
8 \{ SELECT b FROM w2 INTERSECT SELECT b FROM w1 \} \{
\}

9 \{ SELECT a FROM w1 EXCEPT SELECT a FROM w2 \} \{1\}
10 \{ SELECT a FROM w2 EXCEPT SELECT a FROM w1 \} \{1\}
11 \{ SELECT b FROM w1 EXCEPT SELECT b FROM w2 \} \{4.1\}
12 \{ SELECT b FROM w2 EXCEPT SELECT b FROM w1 \} \{4.1\}

# EVIDENCE-OF: R-32562-20566 When three or more simple SELECTs are
# connected into a compound SELECT, they group from left to right. In
# other words, if "A", "B" and "C" are all simple SELECT statements, (A
# op B op C) is processed as ((A op B) op C).
#
# e_select-7.12.1: Precedence of UNION vs. INTERSECT
# e_select-7.12.2: Precedence of UNION vs. UNION ALL
# e_select-7.12.3: Precedence of UNION vs. EXCEPT
# e_select-7.12.4: Precedence of INTERSECT vs. UNION ALL
# e_select-7.12.5: Precedence of INTERSECT vs. EXCEPT
# e_select-7.12.6: Precedence of UNION ALL vs. EXCEPT
# e_select-7.12.7: Check that "a EXCEPT b EXCEPT c" is processed as
#                "(a EXCEPT b) EXCEPT c".
#
# The INTERSECT and EXCEPT operations are mutually commutative. So
# the e_select-7.12.5 test cases do not prove very much.
#
drop_all_tables
do_execsql_test e_select-7.12.0 {
    CREATE TABLE t1(x);
    INSERT INTO t1 VALUES(1);
    INSERT INTO t1 VALUES(2);
    INSERT INTO t1 VALUES(3);
} {}

foreach {tn select res} {
    1a ":(1,2) INTERSECT (1) UNION (3)\" \{1,3\}
    1b ":(3) UNION (1,2) INTERSECT (1)\" \{1\}

    2a "(1,2) UNION (3) UNION ALL (1)\" \{1,2,3,1\}
    2b "(1) UNION ALL (3) UNION (1,2)\" \{1,2,3\}

    3a "(1,2) UNION (3) EXCEPT (1)\" \{2,3\}
    3b "(1,2) EXCEPT (3) UNION (1)\" \{1,2\}

    4a "(1,2) INTERSECT (1) UNION ALL (3)\" \{1,3\}
    4b "(3) UNION (1,2) INTERSECT (1)\" \{1\}

    5a "(1,2) INTERSECT (2) EXCEPT (2)\" \{}
    5b "(2,3) EXCEPT (2) INTERSECT (2)\" \{\}
6a "(2) UNION ALL (2) EXCEPT (2)" {} 
6b "(2) EXCEPT (2) UNION ALL (2)" {} 

7 "(2,3) EXCEPT (2) EXCEPT (3)" {} 
{
set select [string map {{SELECT x FROM t1 WHERE x IN {}}} $select]
do_execsql_test e_select-7.12.$tn $select [list *]$res
}

#-----------------------------------
# ORDER BY clauses
#

drop_all_tables
do_execsql_test e_select-8.1.0 {
CREATE TABLE d1(x, y, z);
INSERT INTO d1 VALUES(1, 2, 3);
INSERT INTO d1 VALUES(2, 5, -1);
INSERT INTO d1 VALUES(1, 2, 8);
INSERT INTO d1 VALUES(1, 2, 7);
INSERT INTO d1 VALUES(2, 4, 93);
INSERT INTO d1 VALUES(1, 2, -20);
INSERT INTO d1 VALUES(1, 4, 93);
INSERT INTO d1 VALUES(1, 5, -1);

CREATE TABLE d2(a, b);
INSERT INTO d2 VALUES('gently', 'failings');
INSERT INTO d2 VALUES('commercials', 'bathrobe');
INSERT INTO d2 VALUES('iterate', 'sexton');
INSERT INTO d2 VALUES('babied', 'charitableness');
INSERT INTO d2 VALUES('solemnness', 'annexed');
INSERT INTO d2 VALUES('rejoicing', 'liabilities');
INSERT INTO d2 VALUES('pragmatist', 'guarded');
INSERT INTO d2 VALUES('barked', 'interrupted');
INSERT INTO d2 VALUES('reemphasizes', 'reply');
INSERT INTO d2 VALUES('lad', 'relenting');
}

# EVIDENCE-OF: R-44988-41064 Rows are first sorted based on the results
# of evaluating the left-most expression in the ORDER BY list, then ties
# are broken by evaluating the second left-most expression and so on.
#
do_select_tests e_select-8.1 {
1 "SELECT * FROM d1 ORDER BY x, y, z" {
  1 2 -20  1 2 3  1 2 7  1 2 8
}
# EVIDENCE-OF: R-06617-54588 Each ORDER BY expression may be optionally followed by one of the keywords ASC (smaller values are returned first) or DESC (larger values are returned first).

# Test cases e_select-8.2.* test the above.

# EVIDENCE-OF: R-18705-33393 If neither ASC or DESC are specified, rows are sorted in ascending (smaller values first) order by default.

# Test cases e_select-8.3.* test the above. All 8.3 test cases are copies of 8.2 test cases with the explicit "ASC" removed.

do_select_tests e_select-8 {
  2.1 "SELECT * FROM d1 ORDER BY x ASC, y ASC, z ASC" {
    1 2 -20    1 2 3    1 2 7    1 2 8
    1 4  93    1 5 -1   2 4 93   2 5 -1
  }
  2.2 "SELECT * FROM d1 ORDER BY x DESC, y DESC, z DESC" {
    2 5 -1     2 4 93   1 5 -1   1 4  93
    1 2 8      1 2 7    1 2 3    1 2 -20
  }
  2.3 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z DESC" {
    2 4 93   2 5 -1     1 2 8      1 2 7
    1 2 3    1 2 -20    1 4  93    1 5 -1
  }
  2.4  "SELECT * FROM d1 ORDER BY x DESC, y, z DESC" {
    2 4 93   2 5 -1     1 2 -20    1 2 3
    1 2 7    1 2 8      1 4  93    1 5 -1
  }
  3.1 "SELECT * FROM d1 ORDER BY x, y, z" {
    1 2 -20    1 2 3    1 2 7    1 2 8
    1 4  93    1 5 -1   2 4 93   2 5 -1
  }
  3.3 "SELECT * FROM d1 ORDER BY DESC, y, z DESC" {
    2 4 93   2 5 -1     1 2 8      1 2 7
    1 2 3    1 2 -20    1 4  93    1 5 -1
  }
  3.4 "SELECT * FROM d1 ORDER BY DESC, y, z" {
    2 4 93   2 5 -1     1 2 -20    1 2 3
    1 2 7    1 2 8      1 4  93    1 5 -1
  }
}

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# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant integer K then the expression is considered an alias for the K-th column of the result set (columns are numbered from left to right starting with 1).

```
#

do_select_tests e_select-8.4 {
    1  "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
        1 2  -20 1 2 3 1 2 7 1 2 8
        1 4  93 1 5 -1 2 4 93 2 5 -1
    }
    2  "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {
        2 5 -1 2 4 93 1 5 -1 1 4 93
        1 2 8 1 2 7 1 2 3 1 2 -20
    }
    3  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 DESC" {
        2 4 93 2 5 -1 1 2 8 1 2 7
        1 2 3 1 2 20 1 4 93 1 5 -1
    }
    4  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 ASC" {
        2 4 93 2 5 -1 1 2 20 1 2 3
        1 2 7 1 2 8 1 4 93 1 5 -1
    }
    5  "SELECT * FROM d1 ORDER BY 1, 2, 3" {
        1 2  -20 1 2 3 1 2 7 1 2 8
        1 4  93 1 5 -1 2 4 93 2 5 -1
    }
    6  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
        2 4 93 2 5 -1 1 2 8 1 2 7
        1 2 3 1 2 20 1 4 93 1 5 -1
    }
    7  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3" {
        2 4 93 2 5 -1 1 2 20 1 2 3
        1 2 7 1 2 8 1 4 93 1 5 -1
    }
    8  "SELECT z, x FROM d1 ORDER BY 2" {
        # 1 1 1 1 1
        # 1 1 2 2 2/
    }
    9  "SELECT z, x FROM d1 ORDER BY 1" {
        /-20 1 -1 # -1 # 3 1
        7 1 8 1 93 # 93 #/
    }
}
```

# EVIDENCE-OF: R-63286-51977 If the ORDER BY expression is an identifier that corresponds to the alias of one of the output columns, then the expression is considered an alias for that column.

#
do_select_tests e_select-8.5 {
1  "SELECT z+1 AS abc FROM d1 ORDER BY abc" {
   -19 0 0 4 8 9 94 94
}
2  "SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
   94 94 9 8 4 0 0 -19
}
3  "SELECT z AS x, x AS z FROM d1 ORDER BY z" {
   # 1 # 1 # 1 # 1 # 1 # 1 # 2 # 2/
}
4  "SELECT z AS x, x AS z FROM d1 ORDER BY x" {
   /-20 1 -1 # -1 # 3 1 7 1 8 1 93 # 93 #/
}
}

# EVIDENCE-OF: R-65068-27207 Otherwise, if the ORDER BY expression is
# any other expression, it is evaluated and the returned value used to
# order the output rows.
#
# EVIDENCE-OF: R-03421-57988 If the SELECT statement is a simple SELECT,
# then an ORDER BY may contain any arbitrary expressions.
#
# EVIDENCE-OF: R-28853-08147 However, if the SELECT is a compound
# SELECT, then ORDER BY expressions that are not aliases to output
# columns must be exactly the same as an expression used as an output
# column.
#
do_select_tests e_select-8.6 {
1  "SELECT * FROM d1 ORDER BY x+y+z" {
   1 2 -20 1 5 -1 1 2 3 2 5 -1
   1 2 7 1 2 8 1 4 93 2 4 93
}
2  "SELECT * FROM d1 ORDER BY x*z" {
   1 2 -20 2 5 -1 1 5 -1 1 2 3
   1 2 7 1 2 8 1 4 93 2 4 93
}
3  "SELECT * FROM d1 ORDER BY y*z" {
   1 2 -20 2 5 -1 1 5 -1 1 2 3
   1 2 7 1 2 8 2 4 93 1 4 93
}
}

# EVIDENCE-OF: R-28853-08147 However, if the SELECT is a compound
# SELECT, then ORDER BY expressions that are not aliases to output
# columns must be exactly the same as an expression used as an output
# column.
#
do_select_tests e_select-8.7.1 -error {
   %s ORDER BY term does not match any column in the result set
}
1  "SELECT x FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" 1st
2  "SELECT x,z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" 2nd
}
do_select_tests e_select-8.7.2 {
1   "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" {
-20 -2 -1 3 7 8 93 186 babied barked commercials gently
iterate lad pragmatist reemphasizes rejoicing solemnness
}
2   "SELECT x, x/z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" {
1 -1 1 0 1 0 1 0 1 0 2 -2 0
babied charitableness barked interrupted commercials bathrobe gently
failings iterate sexton lad relenting pragmatist guarded reemphasizes reply
rejoicing liabilities solemnness annexed
}
}

do_execsql_test e_select-8.8.0 {
CREATE TABLE d3(a);
INSERT INTO d3 VALUES('text');
INSERT INTO d3 VALUES(14.1);
INSERT INTO d3 VALUES(13);
INSERT INTO d3 VALUES('X'78787878');
INSERT INTO d3 VALUES(15);
INSERT INTO d3 VALUES(12.9);
INSERT INTO d3 VALUES(null);
CREATE TABLE d4(x COLLATE nocase);
INSERT INTO d4 VALUES('abc');
INSERT INTO d4 VALUES('ghi');
INSERT INTO d4 VALUES('DEF');
INSERT INTO d4 VALUES('JKL');
} {} 

# EVIDENCE-OF: R-10883-17697 For the purposes of sorting rows, values
# are compared in the same way as for comparison expressions.
#
# The following tests verify that values of different types are sorted
correctly, and that mixed real and integer values are compared properly.
#
do_execsql_test e_select-8.8.1 {
SELECT a FROM d3 ORDER BY a
} {
} 12.9 13 14.1 15 text xxxx
}
do_execsql_test e_select-8.8.2 {
SELECT a FROM d3 ORDER BY a DESC
} {xxxx text 15 14.1 13 12.9 {

# EVIDENCE-OF: R-64199-22471 If the ORDER BY expression is assigned a
collation sequence using the postfix COLLATE operator, then the
# specified collation sequence is used.

do_execsql_test e_select-8.9.1 {
    SELECT x FROM d4 ORDER BY 1 COLLATE binary
} {DEF JKL abc ghi}
do_execsql_test e_select-8.9.2 {
    SELECT x COLLATE binary FROM d4 ORDER BY 1 COLLATE nocase
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-09398-26102 Otherwise, if the ORDER BY expression is
# an alias to an expression that has been assigned a collation sequence
# using the postfix COLLATE operator, then the collation sequence
# assigned to the aliased expression is used.
#
#   In the test 8.10.2, the only result-column expression has no alias. So the
# ORDER BY expression is not a reference to it and therefore does not inherit
# the collation sequence. In test 8.10.3, “x” is the alias (as well as the
# column name), so the ORDER BY expression is interpreted as an alias and the
# collation sequence attached to the result column is used for sorting.
#

do_execsql_test e_select-8.10.1 {
    SELECT x COLLATE binary FROM d4 ORDER BY 1
} {DEF JKL abc ghi}
do_execsql_test e_select-8.10.2 {
    SELECT x COLLATE binary FROM d4 ORDER BY x
} {abc DEF ghi JKL}
do_execsql_test e_select-8.10.3 {
    SELECT x COLLATE binary AS x FROM d4 ORDER BY x
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-27301-09658 Otherwise, if the ORDER BY expression is a
# column or an alias of an expression that is a column, then the default
# collation sequence for the column is used.
#

do_execsql_test e_select-8.11.1 {
    SELECT x AS y FROM d4 ORDER BY y
} {abc DEF ghi JKL}
do_execsql_test e_select-8.11.2 {
    SELECT x||'' FROM d4 ORDER BY x
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-49925-55905 Otherwise, the BINARY collation sequence is
# used.
#

do_execsql_test e_select-8.12.1 {
    SELECT x FROM d4 ORDER BY x||''
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-44130-32593 If an ORDER BY expression is not an integer
# alias, then SQLite searches the left-most SELECT in the compound for a
# result column that matches either the second or third rules above. If
# a match is found, the search stops and the expression is handled as an
# alias for the result column that it has been matched against.
# Otherwise, the next SELECT to the right is tried, and so on.

# do_execsql_test e_select-8.13.0 {
CREATE TABLE d5(a, b);
CREATE TABLE d6(c, d);
CREATE TABLE d7(e, f);

INSERT INTO d5 VALUES(1, 'f');
INSERT INTO d6 VALUES(2, 'e');
INSERT INTO d7 VALUES(3, 'd');
INSERT INTO d5 VALUES(4, 'c');
INSERT INTO d6 VALUES(5, 'b');
INSERT INTO d7 VALUES(6, 'a');

CREATE TABLE d8(x COLLATE nocase);
CREATE TABLE d9(y COLLATE nocase);

INSERT INTO d8 VALUES('a');
INSERT INTO d9 VALUES('B');
INSERT INTO d8 VALUES('c');
INSERT INTO d9 VALUES('D');
}
}
do_select_tests e_select-8.13 {
1   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
    ORDER BY a }
   } {1 2 3 4 5 6}
2   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
    ORDER BY c }
   } {1 2 3 4 5 6}
3   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
    ORDER BY e }
   } {1 2 3 4 5 6}
4   { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
    ORDER BY 1 }
   } {1 2 3 4 5 6}

5   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY b }
   } {f 1 c 4 4 c 1 f}
6   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 2 }
   } {f 1 c 4 4 c 1 f}
7   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY a }
   } {1 f 4 c 4 f 1}
8   { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 1 }
}
9  { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
    {f 2  c 5  4 c  1 f}
10 { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 2 }
    {f 2  c 5  4 c  1 f}
11 { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
    {2 f  5 c  1 f  5 c  2 f}
12 { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 1 }
    {2 f  5 c  1 f  5 c  2 f}

# EVIDENCE-OF: R-39265-04070 If no matching expression can be found in
# the result columns of any constituent SELECT, it is an error.
#
do_select_tests e_select-8.14 -error {
  %s ORDER BY term does not match any column in the result set
} {
  1 { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a+1 }  1st
  2 { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a, a+1 }  2nd
  3 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY 'hello' }  1st
  4 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY blah }  1st
  5 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY c,d,c+d }  3rd
  6 { SELECT * FROM d5 EXCEPT SELECT * FROM d7 ORDER BY 1,2,b,a/b }  4th
}

# EVIDENCE-OF: R-03407-11483 Each term of the ORDER BY clause is
# processed separately and may be matched against result columns from
# different SELECT statements in the compound.
#
do_select_tests e_select-8.15 {
  1 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d }
      {1 e 1 f 4 b 4 c}
  2 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY c-1, b }
      {1 e 1 f 4 b 4 c}
  3 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY 1, 2 }
      {1 e 1 f 4 b 4 c}
}

#-------------------------------------------------------------------------
# Tests related to statements made about the LIMIT/OFFSET clause.
#
do_execsql_test e_select-9.0 {
  CREATE TABLE f1(a, b);
  INSERT INTO f1 VALUES(26, 'z');
  INSERT INTO f1 VALUES(25, 'y');
INSERT INTO f1 VALUES(24, 'x');
INSERT INTO f1 VALUES(23, 'w');
INSERT INTO f1 VALUES(22, 'v');
INSERT INTO f1 VALUES(21, 'u');
INSERT INTO f1 VALUES(20, 't');
INSERT INTO f1 VALUES(19, 's');
INSERT INTO f1 VALUES(18, 'r');
INSERT INTO f1 VALUES(17, 'q');
INSERT INTO f1 VALUES(16, 'p');
INSERT INTO f1 VALUES(15, 'o');
INSERT INTO f1 VALUES(14, 'n');
INSERT INTO f1 VALUES(13, 'm');
INSERT INTO f1 VALUES(12, 'l');
INSERT INTO f1 VALUES(11, 'k');
INSERT INTO f1 VALUES(10, 'j');
INSERT INTO f1 VALUES(9, 'i');
INSERT INTO f1 VALUES(8, 'h');
INSERT INTO f1 VALUES(7, 'g');
INSERT INTO f1 VALUES(6, 'f');
INSERT INTO f1 VALUES(5, 'e');
INSERT INTO f1 VALUES(4, 'd');
INSERT INTO f1 VALUES(3, 'c');
INSERT INTO f1 VALUES(2, 'b');
INSERT INTO f1 VALUES(1, 'a');
}
{}

# EVIDENCE-OF: R-30481-56627 Any scalar expression may be used in the
# LIMIT clause, so long as it evaluates to an integer or a value that
# can be losslessly converted to an integer.
#
#
do_select_tests e_select-9.1 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
  2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
  3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b = 'e') }
      {a b c d e}
  4  { SELECT b FROM f1 ORDER BY a LIMIT 5.0 } {a b c d e}
  5  { SELECT b FROM f1 ORDER BY a LIMIT '5' } {a b c d e}
}

# EVIDENCE-OF: R-46155-47219 If the expression evaluates to a NULL value
# or any other value that cannot be losslessly converted to an integer,
# an error is returned.
#

do_select_tests e_select-9.2 -error "datatype mismatch" {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 'hello' } {}
  2  { SELECT b FROM f1 ORDER BY a LIMIT NULL } {}
  3  { SELECT b FROM f1 ORDER BY a LIMIT 'X'ABC'D'} {}

# EVIDENCE-OF: R-03014-26414 If the LIMIT expression evaluates to a negative value, then there is no upper bound on the number of rows returned.

do_select_tests e_select-9.4 {
  1 { SELECT b FROM f1 ORDER BY a LIMIT -1 }
} {a b c d e f g h i j k l m n o p q r s t u v w x y z}

# EVIDENCE-OF: R-33750-29536 Otherwise, the SELECT returns the first N rows of its result set only, where N is the value that the LIMIT expression evaluates to.

do_select_tests e_select-9.5 {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 0 } {}
  2 { SELECT b FROM f1 ORDER BY a DESC LIMIT 4 } {z y x w}
  3 { SELECT b FROM f1 ORDER BY a DESC LIMIT 8 } {z y x w v u t s}
  4 { SELECT b FROM f1 ORDER BY a DESC LIMIT '12.0' } {z y x w v u t s r q p o}
}

# EVIDENCE-OF: R-34935-19057 Or, if the SELECT statement would return less than N rows without a LIMIT clause, then the entire result set is returned.

do_select_tests e_select-9.6 {
  1 { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } {v w x y z}
  2 { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10 } {2 4 5 5 5 5}
}

# EVIDENCE-OF: R-24188-24349 The expression attached to the optional OFFSET clause that may follow a LIMIT clause must also evaluate to an integer, or a value that can be losslessly converted to an integer.

foreach {tn select} {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
  2 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
  3 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET X'ABCD' }
  4 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
  5 { SELECT b FROM f1 ORDER BY a
LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1)

}

} {do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}} }

# EVIDENCE-OF: R-20467-43422 If an expression has an OFFSET clause, then
# the first M rows are omitted from the result set returned by the
# SELECT statement and the next N rows are returned, where M and N are
# the values that the OFFSET and LIMIT clauses evaluate to,
# respectively.
# do_select_tests e_select-9.8 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 5} {f g h i j k l m n o}
2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10} {k l m n o}
3  { SELECT b FROM f1 ORDER BY a
       LIMIT (SELECT a FROM f1 WHERE b='j')
       OFFSET (SELECT a FROM f1 WHERE b='b')
  } {c d e f g h i j k l}
4  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } {d e f g h}
5  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } {a b c d e}
6  { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
7  { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } {p q r}
}

# EVIDENCE-OF: R-34648-44875 Or, if the SELECT would return less than
# M+N rows if it did not have a LIMIT clause, then the first M rows are
# skipped and the remaining rows (if any) are returned.
# do_select_tests e_select-9.9 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20} {u v w x y z}
2  { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4} {4 3 2 1}
}

# EVIDENCE-OF: R-23293-62447 If the OFFSET clause evaluates to a
# negative value, the results are the same as if it had evaluated to
# zero.
# do_select_tests e_select-9.10 {
1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0 } {a b c d e}
}

# EVIDENCE-OF: R-19509-40356 Instead of a separate OFFSET clause, the
# LIMIT clause may specify two scalar expressions separated by a comma.
In this case, the first expression is used as the OFFSET expression and the second as the LIMIT expression.

do_select_tests e_select-9.11 {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 5, 10 } {f g h i j k l m n o}
  2 { SELECT b FROM f1 ORDER BY a LIMIT 10, 2+3 } {k l m n o}
  3 { SELECT b FROM f1 ORDER BY a
      LIMIT (SELECT a FROM f1 WHERE b='b'), (SELECT a FROM f1 WHERE b='j')
      } {c d e f g h i j k l}
  4 { SELECT b FROM f1 ORDER BY a LIMIT 3.0, '5' } {d e f g h}
  5 { SELECT b FROM f1 ORDER BY a LIMIT 0, '5' } {a b c d e}
  6 { SELECT b FROM f1 ORDER BY a LIMIT 10, 0 } {}
  7 { SELECT b FROM f1 ORDER BY a LIMIT '1'||'5', 3 } {p q r}
  8 { SELECT b FROM f1 ORDER BY a LIMIT 20, 10 } {u v w x y z}
  9 { SELECT a FROM f1 ORDER BY a DESC LIMIT 18+4, 100 } {4 3 2 1}
  10 { SELECT b FROM f1 ORDER BY a LIMIT -1, 5 } {a b c d e}
  11 { SELECT b FROM f1 ORDER BY a LIMIT -500, 5 } {a b c d e}
  12 { SELECT b FROM f1 ORDER BY a LIMIT 0, 5 } {a b c d e}
}

finish_test

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

No license file was found, but licenses were detected in source scan.
# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.

# do_test fts1c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent's minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume. 
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent's Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction | Volume Hedged
--- | ---
1 | 0
2500 | 5000
5500 | 6000

If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);

If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.’);

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e.carter@enron.com', 't.robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.
Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.
Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email(from,to,subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email(from,to,subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com', 'TRV Notification:  (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toe_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email(from,to,subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email(from,to,subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);
INSERT INTO email(from,to,subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email(from,to,subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

Open Source Used In Cisco Emergency Responder 14Su1 MFG 9263
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott  
IIR, Inc.  
713-783-5147 x 3481  
outages@industrialinfo.com

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You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001  
11:30 am - 12:30 pm  
EB 5 C2

You bring your lunch, Limited Seating  
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM  
To: "'chris.germany@enron.com'" <chris.germany@enron.com>  
cc:  
Subject: About St Pauls

<<About St Pauls.url>>  
?http://www.stpaulshouston.org/about.html
Chris,

I like the looks of this place. What do you think about going here Christmas eve? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls-url

');

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_doc');

INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '', 'Here is a goody for you');

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ; 110.000 / HPL IFERC
LS HPL LSK IC       30.000 / Enron
');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.
');
George,
Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JMForney
3-7160;

-- Original Message --
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295;

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat
PS. Just a reminder to add the "*" by the title of calculated points.);

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "''Agheb (E-mail)'' <Agheb@aol.com>, "Leila Mankarious (E-mail)"
    <Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
    <marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
    Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
'

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ----------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
    Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
    cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
    Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra
    Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is
extremely important that any deal booked to the East is communicated quickly
to someone on my team. I know it will take some time for the new names to
sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.
An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: +44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmarcantel@equiva.com', 'RE: i will try to line up a pig for you');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', 'Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', '
The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01
You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');
INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,
mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM  To:""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch

Here are the documents that Peter has prepared for Mark Frevvert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia
Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically
    projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters
    of intent
  Review Enron asset base for potential reuse/licensing
  Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com',
  'thomas.martin@enron.com',
  'Re: Guadalupe Power Partners LP',
  '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
  03:49 PM ---------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com',
  'dan.junek@enron.com,
  chris.germany@enron.com',
  'Columbia Distribution”s Capacity Available for Release - Sum',
  '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
  AM ---------------------------

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

---

- 2001Summer.doc

');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com, ','Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net, ','Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com, ','Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info',' 

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,
Its been a real pleasure working with you (even though it was for only a small amount of time) 
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com;', 'email address change', 'Hello all.

I haven”t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I”m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com;', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - that's funny about john - he definitely remembers him - i'll call pat and let him know - we are coming on saturday - i just haven't had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey);
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,' , 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie
Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

'):
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

'):
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com;', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,  
Karolyn Criado  
3-9441

'):
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.'):
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy'):
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

w www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', '', 'Jacques,}
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip’;
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com’;
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',
'FW: Current Enron TCC Portfolio', 'Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.
Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???,

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.
Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG

| Status last changed by: Barry L. Tycholiz |
| Expense Report Name: 121001 |
| Report Total: $198.98 |
| Amount Due Employee: $198.98 |
| Amount Approved: $198.98 |
| Amount Paid: $0.00 |
| Approval Status: Approved |
| Payment Status: Pending |

To review this expense report, click on the following link for Concur Expense.

http://expensexms.enron.com/
'RE': ‘duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 9:42 AM
To:Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
  Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
'');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com','john.zufferli@enron.com','Reference','John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com','lschiffm@jonesday.com','Re:','I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com','','','Lite Bytz RSVP','This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolztoolzprint.jpg');
COMMIT;
do_test fts1c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
}

do_test fts1c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
}

do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"
  }
}

do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
}

do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
}

do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
# do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
}

do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}
do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}

do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
# do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}

do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH ""child product"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
# do_test fts1c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}

do_test fts1c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}
place.? What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others. 

```sql
SELECT snippet(email) FROM email
WHERE email MATCH 'deal sheet potential reuse'
```

(EOL-Accenture Deal Sheet intent
Review Enron asset base for potential licensing
Contract negotiations)

```sql
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'deal sheet potential reuse'
```

(EOL-Accenture Deal Sheet intent
Review Enron asset base for potential licensing
Contract negotiations)

```sql
SELECT snippet(email,'<<<','>>>',' ') FROM email
WHERE email MATCH 'first things'
```

(Re: Polish Deal! Congrats! Things seem to be building rapidly now on the)

```sql
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
```

(b) Sounds good to me. I bet this is next to the Warick?? Hotel. place.? What do you think about going here Christmas eve?? They have an 11:00 a.m.

```sql
SELECT snippet(email) FROM email
WHERE email MATCH "pursuant to"
```

(Erin:

Pursuant to your request, attached are the Schedule to)

```sql
SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'
```


{\{pete@davis@enron.com\} Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING ...

# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
excsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
}
}

# Combinations of AND and OR operators:
#
do_test fts1c-5.2 {
excsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
}

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...

do_test fts1c-5.2 {
excsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
}

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...

finish_test

Found in path(s):

No license file was found, but licenses were detected in source scan.

# 2012 May 21
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
# NB: Portions of this file are extracted from open-source projects
# covered by permissive licenses. Use of this file for testing is clearly
# allowed. However, do not incorporate the text of this one file into
# end-products without checking the licenses on the open-source projects
# from which this code was extracted. This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#*******************************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects. The schemas are parsed just to make sure that nothing
# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
  db eval {
    CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent TEXT NOT NULL DEFAULT "," ,t_name TEXT NOT NULL, t_value TEXT NOT NULL DEFAULT ",", b_blob BLOB, d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP, i_tmp INTEGER NOT NULL DEFAULT 0);
    CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')), d_date DATE NOT NULL DEFAULT CURRENT_TIMESTAMP, t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')), i_parent INTEGER, t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
    CREATE TABLE doctransactionitem (id INTEGER NOT NULL, rd_doctransaction_id INTEGER NOT NULL, i_object_id INTEGER NOT NULL, t_object_table TEXT NOT NULL, t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')), t_sqlorder TEXT NOT NULL DEFAULT '');
    CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL, t_message TEXT NOT NULL DEFAULT '', t_popup VARCHAR(1) DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
    CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_symbol TEXT NOT NULL DEFAULT '', t_country TEXT NOT NULL DEFAULT '', t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')), t_internet_code TEXT NOT NULL DEFAULT '', i_nbdecimal INT NOT NULL DEFAULT 2, rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source TEXT NOT NULL DEFAULT '');
    CREATE TABLE unitvalue (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_unit_id INTEGER NOT NULL, t_value TEXT NOT NULL DEFAULT '');
  }
}
| CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_bank_number TEXT NOT NULL DEFAULT '', t_icon TEXT NOT NULL DEFAULT ''); |
| CREATE TABLE interest(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_account_id INTEGER NOT NULL, d_date DATE NOT NULL, f_rate FLOAT NOT NULL CHECK (f_rate>=0), t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')), t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365'))); |
| CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, i_group_id INTEGER NOT NULL DEFAULT 0, i_number INTEGER DEFAULT 0 CHECK (i_number>=0), d_date DATE NOT NULL DEFAULT '0000-00-00', rd_account_id INTEGER NOT NULL, t_mode TEXT NOT NULL DEFAULT '', r_payee_id INTEGER NOT NULL DEFAULT 0, t_comment TEXT NOT NULL DEFAULT '', rc_unit_id INTEGER NOT NULL, t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), t_imported VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N', 'P', 'T')), t_template VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N')), i_tmp INTEGER NOT NULL DEFAULT 0, r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0); |
| CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, f_balance FLOAT NOT NULL DEFAULT 0, r_operation_id INTEGER NOT NULL); |
| CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_comment TEXT NOT NULL DEFAULT '', t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N'))); |
| CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL DEFAULT '', t_address TEXT NOT NULL DEFAULT '', t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N'))); |
| CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_comment TEXT NOT NULL DEFAULT '', rd_operation_id INTEGER NOT NULL, r_category_id INTEGER NOT NULL DEFAULT 0, f_value FLOAT NOT NULL DEFAULT 0.0, i_tmp INTEGER NOT NULL DEFAULT 0, r_refund_id INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT ''); |
| CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_description TEXT NOT NULL DEFAULT '', t_definition TEXT NOT NULL DEFAULT '', t_action_description TEXT NOT NULL DEFAULT '', t_action_definition TEXT NOT NULL DEFAULT '', t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N'))); |
| CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, id_category INTEGER NOT NULL DEFAULT 0, t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N')), f_budgeted FLOAT NOT NULL DEFAULT 0.0, f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0, f_transferred FLOAT NOT NULL DEFAULT 0.0, i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12)); |
| CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0, id_category INTEGER NOT NULL DEFAULT 0); |
| CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id integer NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')), t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN ('Y', 'N')), i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12), t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_month_condition IN ('Y', 'N')); |
CREATE TABLE "recurrrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0),t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')),t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));

CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_fullname TEXT,rd_category_id INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));

CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_number TEXT NOT NULL DEFAULT '',t_agency_number TEXT NOT NULL DEFAULT '',t_agency_address TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N'))),t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('C', 'D', 'A', 'I', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N'))),rd_bank_id INTEGER NOT NULL);

CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_fullname TEXT,t_icon TEXT DEFAULT '',f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N'))),t_data TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);

CREATE TABLE vm_category_display_tmp(id INT,t_name TEXT,t_fullname TEXT,rd_category_id INT,t_bookmarked TEXT,i_NBOPERATIONS,f_REALCURRENTAMOUNT);

CREATE TABLE vm_budget_tmp(id INT,rc_category_id INT,t_including_subcategories TEXT,f_budgeted REAL,f_budgeted_modified REAL,f_transferred REAL,i_year INT,i_month INT,t_CATEGORY,t_PERIOD,f_CURRENTAMOUNT,t_RULES)
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date, rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year, i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * FROM node;
CREATE VIEW v_node_displayname AS SELECT *, t_displayname FROM node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_displayname FROM parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW
BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||parameters';
END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||node';
END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN
  UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
  new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN
  UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
  new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;UPDATE node SET t_name=t_name WHERE rd_node_id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilisation par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id='-' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilisation par account)
Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id='-' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisation par budget)
Nom de la contrainte: fkdc_bank_account_id_rd_bank_id') WHERE (SELECT rc_category_id FROM
budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilisation par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id='-' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisation par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id='-' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisation par budget)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM
budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilisation par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id='-' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisation par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id='-' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule) 
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utiliss par budgetrule) 
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule) 
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule) 
Nom de la contrainte: fku预算rule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utiliss par category) 
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category) 
Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (doctransaction est utilis par doctransactionitem) 
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem) 
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransactionitem FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (doctransaction est utilis par doctransactionmsg) 
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fk_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fk_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransactionmsg_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctrine_node_node_rd_node_id_id BEFORE INSERT ON doctrine FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par doctrine)
Nom de la contrainte: fki_doctrine_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_doctrine_node_node_rd_node_id_id BEFORE UPDATE ON doctrine FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par doctrine)
Nom de la contrainte: fku_doctrine_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!="" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!="" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.r_payee_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!="" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!="" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
NEW.r_payee_id!=" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW
BEGIN
  UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
  UPDATE operation SET rc_unit_id=0 WHERE rc_unit_id=OLD.id; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilisé par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!="" AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
  UPDATE recurrentoperation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!="" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR EACH ROW BEGIN
  UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilisé par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM recurrentoperation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkd_recurrentoperation_operation_rd_operation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
  UPDATE recurrentoperation SET rd_operation_id=0 WHERE rd_operation_id=OLD.id; END;

CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrentoperation)
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkdc_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilis par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkd_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN UPDATE unit SET rd_unit_id=0 WHERE rd_unit_id=OLD.id; END;
CREATE TRIGGER fkdc_unit_unit_rd_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;

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Nom de la contrainte: fki_unit_unit_rd_unit_id_id' WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_rd_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unitvalue_unit_rd_unit_id_id BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par
vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'T' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)|| ''STRFTIME('%d/%m/%Y',d_date) AS t_displayname FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers AS T2 ON
WHERE s.id=v_suboperation.r_refund_id," AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT, (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT, (SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY, (SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND, (CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPETYPEEXPENSELS, STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK, STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH, STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *, (SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Activité' WHEN 'A' THEN 'Activité' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPETYPEEXPENSELS, bank.t_name AS t_BANK, bank.t_bank_number AS t_BANK_NUMBER, bank.t_icon AS t_ICON, v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_Soon, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date=date('now')) AS f_TOMDAYAMOUNT, (SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.t_template='N') AS f_CURRENTAMOUNT)}
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f.VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f.VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f.VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f.VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;

CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';

CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer ce suiveur car utilisé par des opérations rapprochées' END) t_delete_message FROM refund;

CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;

CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE  FROM v_refund;

CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;

CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer ce tiers car utilisé par des opérations rapprochées' END) t_delete_message FROM payee;

CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;

CREATE VIEW v_payee_display AS SELECT *  FROM v_payee;

CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||' %') AND t_status='Y') THEN 'Vous n’êtes pas autorisé à supprimer cette catégorie car utilisée par des opérations rapprochées' END) t_delete_message FROM category;

CREATE VIEW v_category_display_tmp AS SELECT *,(SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;

CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT...
CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname||' > %') AS t_NBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '/' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN ' ' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT>0 THEN 'Revenu' END) AS t_TYPEEXPENSENLS FROM vm_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *, (SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;

CREATE VIEW v_interest AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Ngatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS, (CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;

CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;

CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;

CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10 THEN '-0'||i_month ELSE '-'||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id) ORDER BY v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname.,') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;

CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORTRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;

CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTABEFORTRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, tCATEGORY || ' ' || t_PERIOD || ' ' || f_budgeted_modified AS t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER create operation_display AFTER INSERT ON v_operation_display BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER create category delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
# The next test requires FTS4
ifcapable !fts3 {
    finish_test
    return
}

# Taken from the gnome-shell project
#
db close
for delete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
    db eval {
CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
CREATE VIRTUAL TABLE fts USING fts4;
CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
    "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
    "mfo:groupId" INTEGER, "mfo:groupId:graph" INTEGER,
    "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
    INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
    "mfo:updatedAtTime" INTEGER, "mfo:updatedAtTime:graph" INTEGER,
    "mfo:updatedAtTime:localDate" INTEGER, "mfo:updatedAtTime:localTime"
    INTEGER, "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
    "mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action"
    INTEGER, "mfo:action:graph" INTEGER, "mfo:type" INTEGER,
    "mfo:type:graph" INTEGER);
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY,
    "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER,
    "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY,
    "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER,
    "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime"
    INTEGER, "mfo:downloadFlag" INTEGER, "mfo:downloadFlag:graph" INTEGER,
    "mfo:maxSize" INTEGER, "mfo:maxSize:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL,
    "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph"
    INTEGER);
CREATE TABLE "mfo:FeedSettings" (ID INTEGER NOT NULL PRIMARY KEY,
    "mfo:updateInterval" INTEGER, "mfo:updateInterval:graph" INTEGER,
    "mfo:expiryInterval" INTEGER, "mfo:expiryInterval:graph" INTEGER,
    "mfo:downloadPath" TEXT COLLATE NOCASE, "mfo:downloadPath:graph"
    INTEGER, "mfo:downloadFlag" INTEGER, "mfo:downloadFlag:graph" INTEGER,
    "mfo:maxSize" INTEGER, "mfo:maxSize:graph" INTEGER);
| CREATE TABLE "mlo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mlo:name" TEXT COLLATE NOCASE, "mlo:name:graph" INTEGER); |
| CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER); |
| CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER); |
| CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER); |
| CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER); |
| CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER); |
| CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER); |
| CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER); |
| CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER); |
| CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER); |
| CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER); |
| CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER); |
| CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL, "mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER); |
| CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL, "mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER, "mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime" INTEGER NOT NULL); |
| CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL, "mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER); |
| CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER); |
| CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL, "mlo:belongsToCategory" INTEGER NOT NULL, "mlo:belongsToCategory:graph" INTEGER); |
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL, "mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, "mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, "mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, "mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER, "mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL,
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT NULL, "mto:transferPrivacyLevel" TEXT NOT NULL, "mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT NULL, "mto:transferCategory" TEXT NOT NULL, "mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY, "nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph" INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE, "nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY, "nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER, "nao:description" TEXT COLLATE NOCASE, "nao:description:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL, "tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph" INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL, "tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph" INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER, "ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER, "ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER, "ncal:attachmentContent" TEXT COLLATE NOCASE, "ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER, "ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER, "ncal:sentBy" INTEGER, "ncal:sentBy:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT NULL,
  "ncal:bydayModifier" INTEGER NOT NULL, "ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL,
  "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph" INTEGER);
CREATE TABLE "ncal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:method" TEXT COLLATE NOCASE, "ncal:method:graph" INTEGER,
  "ncal:calscale" INTEGER, "ncal:calscale:graph" INTEGER, "ncal:prodid" TEXT COLLATE NOCASE,
  "ncal:prodid:graph" INTEGER, "ncal:version" TEXT COLLATE NOCASE,
  "ncal:version:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_usertype" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL,
  "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER,
  "ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL,
  "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER,
  "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate",
  "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER,
  "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate",
  "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:periodBegin" INTEGER, "ncal:periodBegin:graph" INTEGER,
  "ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime" INTEGER,
  "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph" INTEGER,
  "ncal:periodEnd" INTEGER, "ncal:periodEnd:graph" INTEGER,
  "ncal:periodEnd:localDate" INTEGER, "ncal:periodEnd:localTime" INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);


CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);

CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);

CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER);

CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);


CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE, "ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE NOCASE, "ncal:tzname:graph" INTEGER);
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<td>ID, ncal:relatedToChild</td>
<td>PRIMARY KEY, FOREIGN KEY</td>
</tr>
<tr>
<td>Related To Parent</td>
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<td>ID, ncal:relatedToParent</td>
<td>PRIMARY KEY, FOREIGN KEY</td>
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<td>PRIMARY KEY</td>
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<td>PRIMARY KEY</td>
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CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL, "nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
  "nfo:characterPosition" INTEGER, "nfo:characterPosition:graph" INTEGER,
  "nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
  "nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
  "nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL,
  "nfo:containsBookmark" INTEGER NOT NULL,
  "nfo:containsBookmark:graph" INTEGER NOT NULL,
  "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL,
  "nfo:containsBookmarkFolder" INTEGER NOT NULL,
  "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:originalLocation" TEXT COLLATE NOCASE,
  "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
  "nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER,
  "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:tableOfContents" TEXT COLLATE NOCASE,
  "nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph" INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER,
  "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER,
  "nfo:equipmentSoftware" TEXT COLLATE NOCASE,
  "nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileDataObject" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:fileLastAccessed" INTEGER, "nfo:fileLastAccessed:graph" INTEGER,
  "nfo:fileCreated" INTEGER, "nfo:fileCreated:graph" INTEGER,
  "nfo:fileCreated:localDate" INTEGER, "nfo:fileCreated:localTime" INTEGER,
  "nfo:fileSize" INTEGER, "nfo:fileSize:graph" INTEGER,
  "nfo:permissions" TEXT COLLATE NOCASE,
  "nfo:permissions:graph" INTEGER, "nfo:fileName" TEXT COLLATE NOCASE,
  "nfo:fileName:graph" INTEGER, "nfo:hasHash" INTEGER,
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER,
"nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER,
"nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph" INTEGER,
"nfo:horizontalResolution" INTEGER, "nfo:horizontalResolution:graph" INTEGER,
"nfo:orientation" INTEGER, "nfo:orientation:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL,
"nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL,
"nfo:hasRegionOfInterest" INTEGER NOT NULL,
"nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:Media" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:count" INTEGER,
"nfo:count:graph" INTEGER, "nfo:duration" INTEGER, "nfo:duration:graph" INTEGER,
"nfo:compressionType" INTEGER, "nfo:compressionType:graph" INTEGER,
"nfo:hasMediaStream" INTEGER, "nfo:hasMediaStream:graph" INTEGER,
"nfo:bitDepth" INTEGER, "nfo:bitDepth:graph" INTEGER, "nfo:codec" TEXT COLLATE NOCASE,
"nfo:codec:graph" INTEGER, "nfo:encodedBy" TEXT COLLATE NOCASE,
"nfo:encodedBy:graph" INTEGER, "nfo:bitrateType" TEXT COLLATE NOCASE,
"nfo:bitrateType:graph" INTEGER, "nfo:averageBitrate" REAL,
"nfo:averageBitrate:graph" INTEGER, "nfo:genre" TEXT COLLATE NOCASE,
"nfo:genre:graph" INTEGER, "nfo:equipment" INTEGER,
"nfo:equipment:graph" INTEGER, "nfo:lastPlayedPosition" INTEGER,
"nfo:lastPlayedPosition:graph" INTEGER, "nmm:genre" TEXT COLLATE NOCASE,
"nmm:genre:graph" INTEGER, "nmm:skipCounter" INTEGER,
"nmm:skipCounter:graph" INTEGER, "nmm:dlnaProfile" TEXT COLLATE NOCASE,
"nmm:dlnaProfile:graph" INTEGER, "nmm:dlnaMime" TEXT COLLATE NOCASE,
"nmm:dlnaMime:graph" INTEGER, "nmm:upnPShared" INTEGER,
"nmm:upnPShared:graph" INTEGER, "mtp:credits" TEXT COLLATE NOCASE,
"mtp:credits:graph" INTEGER, "mtp:creator" TEXT COLLATE NOCASE,
"mtp:creator:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER, "nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER, "nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER, "nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph" INTEGER, "nfo:regionOfInterestHeight" REAL, "nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType" INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo" INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER, "nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER, "nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER, "nfo:softwareCmdLine" TEXT COLLATE NOCASE, "nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER, "nmm:musicCDIdentifier" TEXT COLLATE NOCASE, "nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER, "nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL, "nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL, "nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY" INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL, "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL, "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL, "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL, "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL, "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:duration" INTEGER, "nmo:duration:graph" INTEGER, "nmo:duration:localDate" INTEGER, "nmo:duration:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER, "nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER, "nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph" INTEGER, "nmo:lastSuccessfulMessageDate:localDate" INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range" INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER,
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed" INTEGER,
"tracker:fulltextIndexed:graph" INTEGER,
"tracker:fulltextNoLimit" INTEGER, "tracker:fulltextNoLimit:graph" INTEGER,
"tracker:transient" INTEGER, "tracker:transient:graph" INTEGER, "tracker:weight" INTEGER, "tracker:weight:graph" INTEGER,
"tracker:defaultValue" TEXT COLLATE NOCASE, 
"tracker:defaultValue:graph" INTEGER, "nrl:maxCardinality" INTEGER, 
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER, 
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER, 
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdfs:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, 
"rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, 
"tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, 
"rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, 
"tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource" (ID INTEGER NOT NULL PRIMARY KEY, 
Available INTEGER NOT NULL, "rdfs:comment" TEXT COLLATE NOCASE, 
"rdfs:comment:graph" INTEGER, "rdfs:label" TEXT COLLATE NOCASE, 
"rdfs:label:graph" INTEGER, "tracker:added" INTEGER, 
"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER, 
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER, 
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER, 
"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE, 
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE, 
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE, 
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE, 
"dc:description:graph" INTEGER, "dc:publisher" TEXT COLLATE NOCASE, 
"dc:publisher:graph" INTEGER, "dc:type" TEXT COLLATE NOCASE, 
"dc:type:graph" INTEGER, "dc:format" TEXT COLLATE NOCASE, 
"dc:format:graph" INTEGER, "dc:identifier" TEXT COLLATE NOCASE, 
"dc:identifier:graph" INTEGER, "dc:language" TEXT COLLATE NOCASE, 
"dc:language:graph" INTEGER, "dc:coverage" TEXT COLLATE NOCASE, 
"dc:coverage:graph" INTEGER, "dc:rights" TEXT COLLATE NOCASE, 
"dc:rights:graph" INTEGER, "nao:identifier" TEXT COLLATE NOCASE, 
"nao:identifier:graph" INTEGER, "nao:numericRating" REAL, 
"nao:numericRating:graph" INTEGER, "nao:lastModified" INTEGER, 
"nao:lastModified:graph" INTEGER, "nao:lastModified:localDate"
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>scal:AccessLevel</td>
<td>ID INTEGER PRIMARY KEY</td>
</tr>
<tr>
<td>scal:AttendanceStatus</td>
<td>ID INTEGER PRIMARY KEY</td>
</tr>
<tr>
<td>scal:Attendee</td>
<td>ID INTEGER PRIMARY KEY</td>
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<td>scal:AttendeeRole</td>
<td>ID INTEGER PRIMARY KEY</td>
</tr>
<tr>
<td>scal:Attendee_scal:delegated-from</td>
<td>ID INTEGER NOT NULL, &quot;scal:delegated-from:graph&quot; INTEGER</td>
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<tr>
<td>scal:Attendee_scal:delegated-to</td>
<td>ID INTEGER NOT NULL, &quot;scal:delegated-to:graph&quot; INTEGER</td>
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<tr>
<td>scal:Attendee_scal:member</td>
<td>ID INTEGER NOT NULL, &quot;scal:member:graph&quot; INTEGER</td>
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<tr>
<td>scal:Attendee_scal:sent-by</td>
<td>ID INTEGER NOT NULL, &quot;scal:sent-by:graph&quot; INTEGER</td>
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<tr>
<td>scal:Calendar</td>
<td>ID INTEGER PRIMARY KEY</td>
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<tr>
<td>scal:CalendarAlarm</td>
<td>ID INTEGER PRIMARY KEY</td>
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<tr>
<td>scal:CalendarAlarm_scal:alarmAttendee</td>
<td>ID INTEGER NOT NULL, &quot;scal:alarmAttendee:graph&quot; INTEGER</td>
</tr>
<tr>
<td>scal:CalendarItem</td>
<td>ID INTEGER PRIMARY KEY</td>
</tr>
<tr>
<td>scal:transparency</td>
<td>INTEGER</td>
</tr>
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</table>

CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL, "dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date" INTEGER NOT NULL, "dc:date:localDate" INTEGER NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL, "dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL, "dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL, "nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL, "nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL, "nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type" INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem" (ID INTEGER NOT NULL PRIMARY KEY, "scal:textLocation" INTEGER, "scal:textLocation:graph" INTEGER, "scal:resources" TEXT COLLATE NOCASE, "scal:resources:graph" INTEGER, "scal:transparency" INTEGER, "scal:transparency:graph" INTEGER,
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, "scal:recurrencePattern" TEXT COLLATE NOCASE, "scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception" INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER, "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY, "slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude" REAL, "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL, "slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
"slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
"slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
"slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax" REAL, "slo:boundingLatitudeMax:graph" INTEGER,
"slo:boundingLongitudeMin" REAL, "slo:boundingLongitudeMin:graph" INTEGER, "slo:boundingLongitudeMax" REAL,
"slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL,
"slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
"slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
"slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
"slo:postalAddress:graph" INTEGER);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
"slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL,
"slo:belongsToCategory" INTEGER NOT NULL,
"slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
"slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
"slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
"slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
"slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL,
"slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
"tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
"tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime" INTEGER,
"tracker:mountPoint" INTEGER, "tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER,
"tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER,
"tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON
"mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber" ("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON "nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON "nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON "nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON "nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON "nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON "nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON "nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON "nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON "nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url" (ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON "nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID, "nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmark" (ID, "nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON
"nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:hasDataSource_ID_ID" ON
"nie:DataObject_nie:hasDataSource" (ID, "nie:hasDataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON
"nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON
"nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON
"nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON
"nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON
"nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON
"nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON
"nie:InformationElement_nie:hasLogicalPart" (ID,
"nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON
"nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX
"nie:InformationElement_nie:informationElementDate_ID_ID" ON
"nie:InformationElement_nie:informationElementDate" (ID,
"nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON
"nie:InformationElement_nie:isLogicalPartOf" (ID,
"nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON
"nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON
"nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON
"nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON
"nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON
"nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece"
("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece"
("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON
"nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON
"nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON
"nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON
"nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON
"nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX
"nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant", ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON
"nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON
"nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON
"nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc"
(ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message"
("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message"
("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON
"nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON
"nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON
"nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON
"nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON
"nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to"
("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON
"nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON
"nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX
FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS "4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation4", "nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = "nco:Role_nco:hasPhoneNumber5"."ID"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:blogUrl"),',') FROM "nco:Role_nco:blogUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:websiteUrl"),',') FROM "nco:Role_nco:websiteUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"),',') FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE), 'u') FROM (SELECT "nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation8"."ID"), (SELECT GROUP_CONCAT("6_u", ',') FROM (SELECT "rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" FROM "rdfs:Resource_nao:hasTag" AS "rdfs:Resource_nao:hasTag9" WHERE "1_u" = "rdfs:Resource_nao:hasTag9"."ID"), (SELECT Uri FROM Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:department" FROM "nco:Affiliation" WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT GROUP_CONCAT("nco:title",') FROM "nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE), 'u') FROM (SELECT "nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation10"."ID"), (SELECT
finish_test

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procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
procset Adobe_CoolType_Utility_T42 1.0 0
procset Adobe_AGM_Image 1.0 0

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/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
*
****************************************************************************
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE IN TACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
**   * sqlite3_file methods not associated with locking.
**   * Definitions of sqlite3_io_methods objects for all locking
**     methods plus "finder" functions for each locking method.
**   * sqlite3_vfs method implementations.
**   * Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   * Definitions of sqlite3_vfs objects for all locking methods
**     plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

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Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-
is free to use SQLite from multiple threads, but it must make sure

/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: [configuration option]
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <!--
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <!-- <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all muting and puts SQLite into a mode where it can only be used
 ** by a single thread. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option. </dd>
 **
 ** <!-- [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <!-- <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Multi-thread. In other words, it disables
 ** muting on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements]. But other mutexes

** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>

** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>

** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^  
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^(This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. ^When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]

___

Open Source Used In Cisco Emergency Responder 14Su1 MFG 9341
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status()]
**  </ul>)^  
** ^Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.
**  </dd>
**
** <dd> ^This option specifies a static memory buffer that SQLite can use for scratch memory. There are three arguments: A pointer an 8-byte aligned memory buffer from which the scratch allocations will be drawn, the size of each scratch allocation (sz), and the maximum number of scratch allocations (N). The sz argument must be a multiple of 16.
** The first argument must be a pointer to an 8-byte aligned buffer of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So N should be set to twice the expected maximum number of threads.
** ^SQLite will never require a scratch buffer that is more than 6 times the database page size. ^If SQLite needs needs additional scratch memory beyond what is provided by this configuration option, then [sqlite3_malloc()] will be used to obtain the memory needed.</dd>
**
** <dd> ^This option specifies a static memory buffer that SQLite can use for the database page cache with the default page cache implementation. This configuration should not be used if an application-define page cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page (a power of two between 512 and 32768) plus a little extra for each page header. ^The page header size is 20 to 40 bytes depending on the host architecture. ^It is harmless, apart from the wasted memory, to make sz a little too large. The first argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its memory needs for the first N pages that it adds to cache. ^If additional page cache memory is needed beyond what is provided by this option, then SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined.</dd>
**
** <dd> ^This option specifies a static memory buffer that SQLite will use for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> (This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> (This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^ 
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> (This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ (This option sets the
** <\i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt> ** <dd> ^(This option takes a single argument which is a pointer to an object of type [sqlite3_pcache_methods2]. This object specifies the interface to a custom page cache implementation.)^  ^SQLite makes a copy of the object and uses it for page cache memory allocations.)^ </dd> **

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt> ** <dd> ^(This option takes a single argument which is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of the current page cache implementation into that object.)^ </dd> **

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt> ** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite global [error log]. ^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a function with a call signature of void(*)(void*,int,const char*), ** and a pointer to void. ^If the function pointer is not NULL, it is invoked by [sqlite3_log()] to process each logging event. ^If the function pointer is NULL, the [sqlite3_log()] interface becomes a no-op. ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is passed through as the first parameter to the application-defined logger function whenever that function is invoked. ^The second parameter to the logger function is a copy of the first parameter to the corresponding [sqlite3_log()] call and is intended to be a [result code] or an [extended result code]. ^The third parameter passed to the logger is the log message after formatting via [sqlite3_snprintf()]. ^The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface. ** In a multi-threaded application, the application-defined logger function must be threadsafe. </dd> **

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI</dt> ** <dd> This option takes a single argument of type int. If non-zero, then URI handling is globally enabled. If the parameter is zero, then URI handling is globally disabled. If URI handling is globally enabled, all filenames specified as part of [ATTACH] commands are interpreted as URIs, regardless of whether or not the [SQLITE_OPEN_URI] flag is set when the database connection is opened. If it is globally disabled, filenames are only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the database connection is opened. By default, URI handling is globally disabled. The default value may be changed by compiling with the [SQLITE_USE_URI] symbol defined. **

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN</dt> ** <dd> This option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** malfunction when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd> This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree. </dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd> SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dd>
*/
# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

**Parent’s Settings:**
- Minimum: 5000
- Increment: 1000

<table>
<thead>
<tr>
<th>Volume on Autohedge transaction</th>
<th>Volume Hedged</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 24990</td>
<td>0</td>
</tr>
<tr>
<td>2500 - 5499500</td>
<td>5000</td>
</tr>
<tr>
<td>5500 - 64996000</td>
<td>6000</td>
</tr>
</tbody>
</table>

**INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);**

**INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:**

**Employee Name: Christopher F. Calger**
- Status last changed by: Mollie E. Gustafson Ms
- Expense Report Name: CC02.06.02
- Report Total: $3,972.93
- Amount Due Employee: $3,972.93

**To approve this expense report, click on the following link for Concur Expense.**
- http://expensexms.enron.com;

**INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,
I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');**

**INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rt/010129/n29305829.html');**

**INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');**

**INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '****
The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

'):
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com',
'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would
be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business
users?
-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy);

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

-----Original Message-----
From: Meyers, Bert
Sent:Thursday, October 4, 2001 11:49 AM
To:shutdown@enron.com
Subject:OCTOBER SCHEDULE

TEAM,
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

-----Original Message-----
From: McLaughlin, Errol
Sent:Monday, September 24, 2001 10:35 AM
To:john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,
Subject:TRV Notification: (NG - PROPT P/L - 09/27/2001)


'})
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

Here is the information on staffing and outside services. Call if you need anything else.

Jim

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief___Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '');
Here is a goody for you:

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,’, ‘TRV Notification: (West VaR - 11/07/2001)’, The report named: West VaR


INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,’, ‘Enron / HPL Actuals for July 10, 2000’, 'Teco Tap       10.000 / Enron ;

LS HPL LSK IC       30.000 / Enron

');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn’t know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "'Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
')

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com','sherry.dawson@enron.com','Urgent!!! --- New EAST 'books', 'This has to be done______________________________
Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
'):
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357

Open Source Used In Cisco Emergency Responder 14Su1 MFG 9354
Europe: + 44 (0) 20 7783 7783  
Asia/Australia: +61 2 9229 2300  

Dave');  
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,  
I saw it. Very interesting.  

Vince  

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM  
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>  
cc:  
Subject: Light reading - see pieces beginning on page 7  

Cheers and have a nice weekend,  

JHHerbert  

- gd000728.pdf  

')};  
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');  
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.  

Thanks for your understanding in this matter.  

T.Jae Black  
East Power Trading  
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760);
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com',
'10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine
Privacy Program. To be removed from future offers,click here.
SmartReminders.com is a permission based service. To unsubscribe click here.
');
INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', ", 'The guy you are talking about left CIN under a "cloud of suspicion" sort of
speak. He was the one who got into several bad deals and PPA"s in California
for CIN, thus he left on a bad note. Let me know if you need more detail
than that, I felt this was the type of info you were looking for. Thanks!
Ben');
You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax: (415) 782-7854

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch

Here are the documents that Peter has prepared for Mark Frevert.
Nailia Dindarova  
25/06/2001 15:36  
To: Michael Brown/Enron@EUEnronXGate  
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT  

Subject: Documents for Mark Frevert (on EU developments and lessons from California)  

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');  
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
   Review Enron asset base for potential reuse/ licensing
   Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy
Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent <kkoch@nisource.com>, " - *Millar, Debra <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
c: " - *Heckathorn, Tom <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,' , 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,' , 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com,' , 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,' , 'email address change', 'Hello all.

I haven"t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I"m hearing there is some hold-up & the units are
stored on 44.

Shelley;

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com',
'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com',
' 2001 Enron Law Conference (Distribution List 2)',
'  Enron Law Conference

San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.

');

INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat
and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG  3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email(from[,],to[,],subject[,],body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email(from[,],to[,],subject[,],body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email(from[,],to[,],subject[,],body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky  
Director, Southwest Region  
Anti-Defamation League  
713/627-3490, ext. 122 
713/627-2011 (fax) 
MCominsky@aol.com;

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays. PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

');

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', '.bonin@enron.com, felicia.case@enron.com, b.clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,  
Karolyn Criado  
3-9441
In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance

-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,
Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio
-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.brADFORD@enron.com, debbie.brackett@enron.com', 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committee approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490

INSERT INTO email(from),to,subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description: ');
INSERT INTO email(from),to,subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,
Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email(from),to,subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending
To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.);

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To:Quigley, Dutch
Subject:RE:

give me a contact over there too
BP

-----Original Message-----
Coral

Jeff Whitnah 713-767-5374
Relaint
Steve McGinn 713-207-4000’;

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.
*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');

COMMIT;

} {}
do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts2c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
    Review Enron asset base for <b>potential</b>/ <b>reuse</b>/ licensing
    Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations }}
do_test fts2c-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations }}
WHERE email MATCH 'first things'

} } {{Re: <<First>>> Polish Deal! Congrats! <<Things>>> seem to be building rapidly now on the } }
do_test fts2c-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b> }
do_test fts2c-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
  }
} {{Erin:
  <b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b> }
do_test fts2c-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
  Variances detected.
  Variances detected in <b>Load</b> schedule.

  LOG MESSAGES:

  PARSING <b>...</b> }

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b> }
do_test fts2c-5.2 {
  execsql {

Open Source Used In Cisco Emergency Responder 14Su1 MFG 9373
SELECT snippet(email) FROM email

WHERE email MATCH 'enron OR com questar'

} } {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}

finish_test

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-
src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/test/fts2c.test
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* %%%Copyright
No license file was found, but licenses were detected in source scan.

application code is free to use these routines as well, if desired.

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-
doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/34to35.html
No license file was found, but licenses were detected in source scan.

Sources are in the <a href="copyright.html">public domain</a>.
Rather than using fopen() to write XML or some proprietary format into

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-
doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/features.html
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and so many groups use SQLite

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-
doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/famous.html
No license file was found, but licenses were detected in source scan.
FOR IMMEDIATE RELEASE:

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<p>Ensures independent technical direction for world's most deployed SQL database engine</p>

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.
The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian’s commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.

About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.
CONTACT INFORMATION:<br>SQLite Consortium<br>Dr. D. Richard Hipp<br>6200 Maple Cove Lane<br>Charlotte, NC 28269<br>Email: drh@sqlite.org<br>http://www.sqlite.org/<br>Tel: +1.704.948.4565<br></p>

<p>About Mozilla</p>

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.</p>

CONTACT INFORMATION:<br>Mozilla Corporation<br>Jessica Waight<br>Tel: +1.415.345.4754<br>Email: jwaight@outcastpr.com</p>

<p>About Symbian Limited</p>

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

CONTACT INFORMATION:<br>Symbian Global Press Office
Karen Hamblen<br>+44 207 154 1707<br>press@symbian.com
</p>
</body></html>

Found in path(s):

No license file was found, but licenses were detected in source scan.


Even though SQLite is in the public domain and does not require
their contributions to the public domain. We make this dedication for the benefit

without a shared lock, other processes are free to modify the database

The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

MMFauxFont.prc

MMFauxFont.prc

%define name sqlite
%define version SQLITE_VERSION
Name: %{name}  
Summary: SQLite is a C library that implements an embeddable SQL database engine 
Version: %{version}  
Release: %{release}  
Source: %{name}-%{version}.tar.gz  
Group: System/Libraries  
URL: http://www.sqlite.org/  
License: Public Domain  
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. Programs that link with the SQLite library can have SQL database access without running a separate RDBMS process. The distribution comes with a standalone command-line access program (sqlite) that can be used to administer an SQLite database and which serves as an example of how to use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed to develop programs that use the SQLite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}
make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig

clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite3.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

Found in path(s):
No license file was found, but licenses were detected in source scan.

application is free to use the same <a href="#sqlite3">database connection</a> or the

Found in path(s):
No license file was found, but licenses were detected in source scan.

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
* 
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
* 
* */
To compute the message digest of a chunk of bytes, declare an
MD5Context structure, pass it to MD5Init, call MD5Update as
needed on buffers full of bytes, and then call MD5Final, which
will fill a supplied 16-byte array with the digest.

```
Found in path(s):
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-
src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/test/threadtest3.c
* /opt/cola/permits/1158140017_1634536187.7/0/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-
src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/src/tclsqlite.c

No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

? If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
? If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction Volume Hedged

<table>
<thead>
<tr>
<th>Volume on Autohedge transaction</th>
<th>Volume Hedged</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24990</td>
</tr>
<tr>
<td>2500 - 54995000</td>
<td>5000</td>
</tr>
<tr>
<td>5500 - 64996000</td>
<td></td>
</tr>
</tbody>
</table>

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:
Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rt/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congratulations! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001


-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001


');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager
-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,

If Julie”s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd”s sheets as well. Thanks.

Dan

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

'));

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE
GIVE ME A CALL.

BERT});
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com,
bilal.bajiwa@enron.com, john.griffith@enron.com, '); 'TRV Notification: (NG - PROPT P/L - 09/27/2001)'; The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG++PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&TV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages. In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_ega_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

Open Source Used In Cisco Emergency Responder 14Su1 MFG 9385
You are invited to attend the EWS Brown Bag Lunch Series

Featuring:  RAY BOWEN, COO

Topic:  Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch,     Limited Seating
We provide drinks and dessert.      RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.??

- About St Pauls.url

INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00
AM November 20, 2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept. 29, 2000, E-Gas (Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations (daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', '');

Here is a goody for you);
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com, ', 'TRV Notification: (West VaR - 11/07/2001)', The report named: West VaR <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com, ', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap  10.000 / Enron ;
LS HPL LSK IC  30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227
-----Original Message-----
From: Royed, Jeff
Sent:Tuesday, September 25, 2001 11:37 AM
To:Bayer, Adam
Subject:Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';
http://www.egyptianfestival.com/

- Egyptian Festival.url

');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done........................................

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast
WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.
This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine
Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe, click here.\n
INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', ", 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,
mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "'smara@enron.com'"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?
Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUnronXGate
cc: Ross Sankey/Enron@EUnronXGate, Eric Shaw/ENRON@EUnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert.
He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

'):

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
   Review Enron asset base for potential reuse/ licensing
   Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
'));
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,','Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.);
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net, 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is :
713-668-3712...... my cell # is 281-381-7332
the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
e-mail: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,','email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:
bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', 'Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re: ', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I’ll get it done today.

DG  3-9573
From: Bryce Baxter                           06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc: 
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

INSERT INTO email(from,to,subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

INSERT INTO email(from,to,subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com.', 'Postings', 'Please see the attached.

ds

');

INSERT INTO email(from,to,subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will
have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Re: Tennessee Buy - Louis Dreyfus, Beverly - once again thanks so much for your help on this.

Price List week of Oct. 8-9, 2001,
Please contact me if you have any questions regarding last week's prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com',
'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our
Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.);
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',
'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey
big guy.....check this out.....

www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248
($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two
links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney
Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,' , 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???,'

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks
Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490;
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102
Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)
Chairperson:Outlook Migration Team
Detailed Description:

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks !

Best regards

Diana Seifert
EOL PCG);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com'

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', ", 'Technical Support','Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list."

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject:RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent:Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch  
Subject: RE: give me a contact over there too

BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject: Coral
Jeff Whitnah
713-767-5374
Reliant
Steve McGinn
713-207-4000');

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----

$$ Variance found in table tblLoads.

Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');

John');

--- End of message ---

--- End of message ---

--- End of message ---

--- End of message ---

--- End of message ---

--- End of message ---

--- End of message ---
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztoolzprint.jpg');
    COMMIT;
} {}
do_test fts3ac-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts3ac-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
  do_test fts3ac-2.1 {
    execsql {
      SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
      WHERE body MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}
} {{<b>...</b>here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>}}
do_test fts3ac-4.3 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> asset base for <b>potential</b> <b>reuse</b>/ licensing Contract negotiations<b>...</b>}}
do_test fts3ac-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,' <<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
}

do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
}

do_test fts3ac-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
  }
}

do_test fts3ac-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
}

# Combinations of AND and OR operators:
#

do_test fts3ac-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
}

do_test fts3ac-5.2 {
  execsql {

SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@<b>enron</b>.<b>com</b>...}}

15 <b>Questar</b> Pipeline
16 Rockies<b>...</b>}}

#---------------------------------------------------------------
# Test a problem reported on the mailing list.
#

do_test fts3ac-6.1 {
    execsql {
        CREATE VIRTUAL TABLE ft USING fts3(one, two);
        INSERT INTO ft VALUES('','foo');
        INSERT INTO ft VALUES('foo','foo');
        SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
    }
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
    execsql {
        DELETE FROM ft WHERE one = 'foo';
        SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
    }
} {{1 0 0 3}}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: Public Domain

Found in path(s):
* /opt/cola/permits/1158140017_1634536187.70/sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite.spec
No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%Version
No license file was found, but licenses were detected in source scan.

SQLite is in the public domain. This document describes what that means.
No license file was found, but licenses were detected in source scan.

SQLite core and like the SQLite core are in the public domain. The
The `<b><a href="th3.html">TH3</a></b>` test harness is a set of proprietary tests, written in

No license file was found, but licenses were detected in source scan.

SQLite is high-quality, public domain software. The goal of
members can also request their own private, proprietary extensions

No license file was found, but licenses were detected in source scan.

/ *
** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
**************************************************************************
**
**************************************************************
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/

No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commerical product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
    a        a
    aaron    aaron
    abaissiez abaissiez
    abandon  abandon
    abandoned abandon
    abase    abas
    abash    abash
    abate    abat
    abated   abat
    abatement abat
    abatements abat
    abates   abat
    abbess   abbess
    abbey    abbei
    abbeys   abbei
    abominable abbomin
}
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# Create a full-text index to use for testing the stemmer.
#
$db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
exesql {
    DELETE FROM t1_term;
    DELETE FROM t1_content;
    INSERT INTO t1(word) VALUES($pfrom);
    SELECT term FROM t1_term;
}
} $pto
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain

Found in path(s):
No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

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```{string currentfile exch readstring pop}executeonly def

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application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the

Found in path(s):
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# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*****************************************************************************

# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
execsql {CREATE TABLE tbl1(t1 text)}
foreach word {this program is free software} {
  execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
execsql {
  CREATE TABLE t2(a);
  INSERT INTO t2 VALUES(1);
  INSERT INTO t2 VALUES(NULL);
  INSERT INTO t2 VALUES(345);
  INSERT INTO t2 VALUES(NULL);
}
INSERT INTO t2 VALUES(67890);
SELECT * FROM t2;
}
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
do_test func-2.7 {
execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
}
do_test func-2.8 {
execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"\u1234" != "u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
execsql {DELETE FROM tbl1}
foreach word "contains UTF-8 characters hi\u1234ho" {
    execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1 ORDER BY t1}
}"UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
}{5 10 8 5}
do_test func-3.2 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
}{UT ch co hi}
do_test func-3.3 {
execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
}"UTF cha con hi\u1234"
do_test func-3.4 {
execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
}"TF ha on i\u1234"
do_test func-3.5 {
execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
}"TF- ha on i\u1234h"
do_test func-3.6 {
execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
}"F- ar nt \u1234h"
do_test func-3.7 {
execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
}"-8 ra ta ho"
do_test func-3.8 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"

do_test func-3.9 {
  execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"

do_test func-3.10 {
  execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain \u1234h"

do_test func-3.99 {
  execsql {DELETE FROM tbl1}
  foreach word [this program is free software] {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1}
} {this program is free software}
}

#: End \u1234!\u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
  do_test func-4.1 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
  } {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
  do_test func-4.1 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
  } {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
  do_test func-4.2 {
    catchsql {SELECT abs() FROM t1}
  } {1 {wrong number of arguments to function abs()}}
}
catchsql {SELECT abs(b) FROM t1 ORDER BY a} 
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a} 
} {0 {3 12345.6789 5}}
}
ifcapable !floatingpoint {
if {
[working_64bit_int]} {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a} 
} {0 {2 12345678901234 2}}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a} 
} {0 {3 1234567890 5}}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2} 
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
execsql {SELECT abs(t1) FROM tbl1} 
} {0.0 0.0 0.0 0.0 0.0}
}
ifcapable floatingpoint {
do_test func-4.5 {
catchsql {SELECT round(a,b,c) FROM t1} 
} {1 {wrong number of arguments to function round()}}
do_test func-4.6 {
catchsql {SELECT round(b,2) FROM t1 ORDER BY b} 
} {0 {-2.0 1.23 2.0}}
do_test func-4.7 {
catchsql {SELECT round(b,0) FROM t1 ORDER BY a} 
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
catchsql {SELECT round(c) FROM t1 ORDER BY a} 
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a} 
} {0 {3.0 -12345.68 -5.0}}
do_test func-4.10 {
catchsql {SELECT `x' || round(c,a) || 'y' FROM t1 ORDER BY a} 
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
catchsql {SELECT round() FROM t1 ORDER BY a} 
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 [2.0 1.23 2.0]}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
set x1 [expr 40222.5 + $i]
set x2 [expr 40223.0 + $i]
do_test func-4.17.$i {
execsql {SELECT round($x1);}
} $x2
}
for {set i 1} {$i<999} {incr i} {
set x1 [expr 40222.05 + $i]
set x2 [expr 40222.10 + $i]
do_test func-4.18.$i {
execsql {SELECT round($x1,1);}
} $x2
}
do_test func-4.20 {
execsql {SELECT round(40223.4999999999);}
} {40223.0}
do_test func-4.21 {
execsql {SELECT round(40224.4999999999);}
} {40224.0}
do_test func-4.22 {
execsql {SELECT round(40225.4999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
do_test func-4.23.$i {
execsql {SELECT round(40223.4999999999,$i);}
} {40223.5}
do_test func-4.24.$i {
execsql {SELECT round(40224.4999999999,$i);}
} {40224.5}
do_test func-4.25.$i {
execsql {SELECT round(40225.4999999999,$i);}
} {40225.5}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);} } {40223.4999999999}
    do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);} } {40224.4999999999}
    do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);} } {40225.4999999999}
}
    do_test func-4.29 {
        execsql {SELECT round(1234567890.5);} } {1234567891.0}
    do_test func-4.30 {
        execsql {SELECT round(12345678901.5);} } {12345678902.0}
    do_test func-4.31 {
        execsql {SELECT round(123456789012.5);} } {123456789013.0}
    do_test func-4.32 {
        execsql {SELECT round(1234567890123.5);} } {1234567890124.0}
    do_test func-4.33 {
        execsql {SELECT round(12345678901234.5);} } {12345678901235.0}
    do_test func-4.34 {
        execsql {SELECT round(1234567890123.35,1);} } {1234567890123.4}
    do_test func-4.35 {
        execsql {SELECT round(1234567890123.445,2);} } {1234567890123.45}
    do_test func-4.36 {
        execsql {SELECT round(99999999999994.5);} } {99999999999995.0}
    do_test func-4.37 {
        execsql {SELECT round(9999999999999.55,1);} } {9999999999999.6}
    do_test func-4.38 {
        execsql {SELECT round(9999999999999.556,2);} } {9999999999999.56}
}

# Test the upper() and lower() functions
#
    do_test func-5.1 {

execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
  do_test func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
  execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
  do_test func-8.1 {
    ifcapable explain {
      execsql {EXPLAIN SELECT sum(a) FROM t2;}}
ifcapable floatingpoint {
    do_test func-8.1 {
        ifcapable explain {
            execsql {EXPLAIN SELECT sum(a) FROM t2;}
        }
        execsql {
            SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
        }
        } {68236 3 22745.33 1 67890 5}
    }
    do_test func-8.2 {
        execsql {
            SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
        }
        } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
    }
ifcapable tempdb {
    do_test func-8.3 {
        execsql {
            CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
            SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
        }
        } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
    }
else {
    do_test func-8.3 {
        execsql {
            CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
            SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
        }
        } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
    }
    do_test func-8.4 {
        execsql {
            SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
        }
        } {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
    }
ifcapable compound {
    do_test func-8.5 {
        execsql {
            SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                                  UNION ALL SELECT -9223372036854775807)
        }
    }
}
do_test func-8.6 {
    execsql {
        SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
            UNION ALL SELECT -9223372036854775807)
    }
} {integer}

do_test func-8.7 {
    execsql {
        SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
            UNION ALL SELECT -9223372036854775807)
    }
} {real}

ifcapable floatingpoint {
    do_test func-8.8 {
        execsql {
            SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                UNION ALL SELECT -9223372036850000000)
        }
    } {1}
}

ifcapable !floatingpoint {
    do_test func-8.8 {
        execsql {
            SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
                UNION ALL SELECT -9223372036850000000)
        }
    } {1}
}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
    execsql {
        SELECT random() is not null;
    }
} {1}

do_test func-9.2 {
    execsql {
        SELECT typeof(random());
    }
} {integer}

do_test func-9.3 {
    execsql {
        SELECT randomblob(32) is not null;
    }
} {1}
*do_test func-9.4*
execsql {
    SELECT typeof(randomblob(32));
} {blob}
do_test func-9.5 {
execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)),
    length(randomblob(2000))
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().
#
if capable bloblit {
do_test func-9.10 {
    execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')} {00112233445566778899AABBCCDDEEFF}
} set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
do_test func-9.11-utf16le {
    execsql {SELECT hex(replace('abcdefg','ef','12'))} {6100620063006400310032006700}
do_test func-9.12-utf16le {
    execsql {SELECT hex(replace('abcdefg','','12'))} {6100620063006400650066006700}
do_test func-9.13-utf16le {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))} {61006100610061006100661006100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
do_test func-9.11-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef','12'))} {61626364313267}
do_test func-9.12-utf8 {
    execsql {SELECT hex(replace('abcdefg','','12'))} {61626364656667}
do_test func-9.13-utf8 {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))} {6161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#

set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
catchsql {
    SELECT testfunc(NULL,NULL);
}
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
execsql {
    SELECT testfunc('string','abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'int', 1234
    );
} {1234}
} {do_test func-10.3 {
execsql {
    SELECT testfunc('string','abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'string', NULL
    );
} {}
} {ifcapable floatingpoint {
    do_test func-10.4 {
execsql {
    SELECT testfunc('string','abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'double', 1.234
    );
} {1.234}
} {do_test func-10.5 {
execsql {
    SELECT testfunc('string','abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'int', 1234,
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'string', NULL,
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'double', 1.234,
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'int', 1234,
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'string', NULL,
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'int', 1234,
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'string', NULL,
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                  'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
} 


'double', 1.234
);
}
} {1.234}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
execsql {
    SELECT sqlite_version(*);
}
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]=='UTF-8'} {
    do_test func-12.1-utf8 {
execsql {
    SELECT test_destructor('hello world'), test_destructor_count();
}
} {{hello world} 1}
} else {
    ifcapable {utf16} {
        do_test func-12.1-utf16 {
execsql {
    SELECT test_destructor16('hello world'), test_destructor_count16();
}
} {{hello world} 1}
}
}

do_test func-12.2 {
execsql {
    SELECT test_destructor_count();
}
} {0}

do_test func-12.3 {
execsql {
    SELECT test_destructor('hello')||' world'
}
} {{hello world}}
do_test func-12.4 {
execsql {
    SELECT test_destructor_count();
}
} {0}
do_test func-12.5 {
execsql {
    CREATE TABLE t4(x);
    INSERT INTO t4 VALUES(test_destructor('hello'));
    INSERT INTO t4 VALUES(test_destructor('world'));
    SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
}
} {hello world}
do_test func-12.6 {
execsql {
    SELECT test_destructor_count();
}
} {0}
do_test func-12.7 {
execsql {
    DROP TABLE t4;
}
} {}

# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
execsql {
    SELECT test_auxdata('hello world');
}
} {0}
do_test func-13.2 {
execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
}
} {}
do_test func-13.3 {
execsql {
    SELECT test_auxdata('hello world') FROM t4;
}
} {0 1}
do_test func-13.4 {
execsql {

SELECT test_auxdata('hello world', 123) FROM t4;
}
} {{0 0} {1 1}}
do_test func-13.5 {
execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
}
} {{0 0} {1 0}}
do_test func-13.6 {
execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
}
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
    set DB [sqlite3_connection_pointer db]
    set sql "SELECT test_auxdata( ?, a ) FROM t4;"
    set STMT [sqlite3_prepare $DB $sql -1 TAIL]
    sqlite3_bind_text $STMT 1 hello\000 -1
    set res [list]
    while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
        lappend res [sqlite3_column_text $STMT 0]
    }
    lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
    catch {
        db function [string repeat X 254] {return "hello"}
    }
} {0}
do_test func-14.2 {
    catch {
        db function [string repeat X 256] {return "hello"}
    }
} {1}
do_test func-15.1 {
    catchsql {select test_error(NULL)}
} {1 {1 1}}
do_test func-15.2 {
    catchsql {select test_error('this is the error message')}
} {1 {this is the error message}}
do_test func-15.3 {
    catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
    db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
    execsql {
        CREATE TABLE tbl2(a, b);
    }
    set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
    sqlite3_bind_blob $::STMT 1 abc 3
    sqlite3_step $::STMT
    sqlite3_finalize $::STMT
    execsql {
        SELECT quote(a), quote(b) FROM tbl2;
    }
} {X'616263' NULL}

# Correctly handle function error messages that include % . Ticket #1354
#
do_test func-17.1 {
    proc testfunc1 args {error "Error %d with %s percents %p"}
    db function testfunc1 ::testfunc1
    catchsql {
        SELECT testfunc1(1,2,3);
    }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
    execsql {
        CREATE TABLE t5(x);
        INSERT INTO t5 VALUES(1);
        INSERT INTO t5 VALUES(-99);
        INSERT INTO t5 VALUES(10000);
        SELECT sum(x) FROM t5;
    }
} {9902}
ifcapable floatingpoint {
do_test func-18.2 {
    execsql {
        INSERT INTO t5 VALUES(0.0);
        SELECT sum(x) FROM t5;
    }
} {9902.0}
}
# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
  execsql {
    DELETE FROM t5;
    SELECT sum(x), total(x) FROM t5;
  }
} {{} 0.0}
do_test func-18.4 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
} {{} 0.0}
do_test func-18.5 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
} {{} 0.0}
do_test func-18.6 {
  execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
  }
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
do_test func-18.10 {
  execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
  }
} 0
do_test func-18.11 {
  execsql {
    SELECT typeof(sum(x)) FROM t6
  }
} integer
ifcapable floatingpoint {
do_test func-18.12 {
catchsql {
INSERT INTO t6 VALUES(1<<62);
SELECT sum(x) - ((1<<62)*2.0+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
SELECT total(x) - ((1<<62)*2.0+1) FROM t6
}
} 0.0
}
ifcapable !floatingpoint {
do_test func-18.12 {
catchsql {
INSERT INTO t6 VALUES(1<<62);
SELECT sum(x) - ((1<<62)*2+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
SELECT total(x) - ((1<<62)*2+1) FROM t6
}
} 0.0
}
if {[working_64bit_int]} {
do_test func-18.14 {
execsql {
SELECT sum(-9223372036854775805);
}
} -9223372036854775805
}
ifcapable compound&&subquery {
do_test func-18.15 {
catchsql {
SELECT sum(x) FROM
(SELECT 9223372036854775807 AS x UNION ALL
SELECT 10 AS x);
}
} {1 {integer overflow}}
if {[working_64bit_int]} {
do_test func-18.16 {
catchsql {
SELECT sum(x) FROM
(SELECT 9223372036854775807 AS x UNION ALL
SELECT -10 AS x);
}
} {0 9223372036854775797}

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do_test func-18.17 {
catchsql {
    SELECT sum(x) FROM 
    (SELECT -9223372036854775807 AS x UNION ALL 
    SELECT 10 AS x);
}
} {0 -9223372036854775797}
}
do_test func-18.18 {
catchsql {
    SELECT sum(x) FROM 
    (SELECT -9223372036854775807 AS x UNION ALL 
    SELECT -10 AS x);
}
} {1 {integer overflow}}
do_test func-18.19 {
catchsql {
    SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
}
} {0 -1}
do_test func-18.20 {
catchsql {
    SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
}
} {0 1}
do_test func-18.21 {
catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
}
} {0 -1}
do_test func-18.22 {
catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
}
} {0 1}

} ;# if capable compound && subquery

# Integer overflow on abs()
#
if [{working_64bit_int}] {
do_test func-18.31 {
catchsql {
    SELECT abs(-9223372036854775807);
}
} {0 9223372036854775807}
}
do_test func-18.32 {
catchsql {
    SELECT abs(-9223372036854775807-1);
}
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
    execsql {
        SELECT match(a,b) FROM t1 WHERE 0;
    }
} {}
do_test func-19.2 {
    catchsql {
        SELECT 'abc' MATCH 'xyz';
    }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
    catchsql {
        SELECT 'abc' NOT MATCH 'xyz';
    }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
    catchsql {
        SELECT match(1,2,3);
    }
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if {! [catch {db eval {SELECT soundex('hello')}}]} {
    set i 0
    foreach {name sdx} {
        euler E460
        EULER E460
        Euler E460
        ellery E460
        gauss G200
        ghosh G200
        hilbert H416
        Heilbronn H416
        knuth K530
        kant K530
        Lloyd L300
        LADD L300
        Lukasiewicz L222
        Lissajous L222
        A A000
# Tests of the REPLACE function.
#
do_test func-21.1 {
catchsql {
    SELECT replace(1,2);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
catchsql {
    SELECT replace(1,2,3,4);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
execsql {
    SELECT typeof(replace("This is the main test string", NULL, "ALT"));
}
} {null}
do_test func-21.4 {
execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
}
} {null}
do_test func-21.5 {
execsql {
    SELECT typeof(replace("This is the main test string", "main", NULL));
}
} {null}
do_test func-21.6 {
execsql {
    SELECT replace("This is the main test string", "main", "ALT");
}
} {{This is the ALT test string}}
do_test func-21.7 {
execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
}
} {{This is the larger-main test string}}
do_test func-21.8 {
execsql {

SELECT replace("aaaaaaa", "a", "0123456789");
}
} {0123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

capable tclvar {
do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str [string repeat A 29998]CC[string repeat A 35537]
    set ::rep [string repeat B 65536]
    execsql {
        SELECT LENGTH(REPLACE($::str, 'C', $::rep));
    }
} {expr 29998 + 2*65536 + 35537}
}

# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
execlsq {SELECT trim('  hi  ')};
} {hi}
do_test func-22.5 {
execlsq {SELECT ltrim('  hi  ')};
} {{hi}}
do_test func-22.6 {
execlsq {SELECT rtrim('  hi  ')};
} {{ hi}}
do_test func-22.7 {
execlsq {SELECT trim('  hi  ','xyz')};
} {{ hi }}
do_test func-22.8 {
execlsq {SELECT ltrim('  hi  ','xyz')};
} {{ hi }}
do_test func-22.9 {
execlsq {SELECT rtrim('  hi  ','xyz')};
} {{ hi }}
do_test func-22.10 {
execlsq {SELECT trim('xyzy hi zzyz','xyz')};
} {{ hi }}
do_test func-22.11 {
  execsql {SELECT ltrim('xyxzy hi zzzy','xyz');} {{ hi zzzy}}
}

do_test func-22.12 {
  execsql {SELECT rtrim('xyxzy hi zzzy','xyz');} {{xyxzy hi }}
}

do_test func-22.13 {
  execsql {SELECT trim('  hi  ','');} {{  hi  }}
}

if [[db one {PRAGMA encoding}]="UTF-8"] {
  do_test func-22.14 {
    execsql {SELECT hex(trim(x'c280e1bfbf48bfbf6869',x'6162e1bfbfec280'))} {F48FBFBF6869}
  }
  do_test func-22.15 {
    execsql {SELECT hex(trim(x'6869c280e1bfbf48bfbf61',
                  x'6162e1bfbfec280f48bfbf'))} {6869}
  }
}

do_test func-22.16 {
  execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1')))} {CEB2CEB3}
}

do_test func-22.20 {
  execsql {SELECT typeof(trim(NULL));} {null}
}

do_test func-22.21 {
  execsql {SELECT typeof(trim(NULL,'xyz'));} {null}
}

do_test func-22.22 {
  execsql {SELECT typeof(trim('hello',NULL));} {null}
}

# This is to test the deprecated sqlite3_aggregate_count() API.
#
if capable deprecated {
  do_test func-23.1 {
    sqlite3_create_aggregate db
    execsql {
      SELECT legacy_count() FROM t6;
    } {3}
  }
}

# The group_concat() function.
#
if capability capability {
  do_test func-24.1 {
    execsql {
      SELECT group_concat(t1) FROM tbl1
    } {null}
  }
}
do_test func-24.2 {
  execsql {
    SELECT group_concat(t1,' ') FROM tbl1
  }
} {this program is free software}
do_test func-24.3 {
  execsql {
    SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
  }
} {this 2 program 3 is 4 free 5 software}
do_test func-24.4 {
  execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
  }
} {}
do_test func-24.5 {
  execsql {
    SELECT group_concat(t1,NULL) FROM tbl1
  }
} {this program is free software}
do_test func-24.6 {
  execsql {
    SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
  }
} {BEGIN-this program is free software}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
  append midargs ,'/$i'
  append midres /$i
  set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}"]
  set sql "SELECT md5sum(t1$midargs) FROM tbl1"
  do_test func-24.7.$i {
    db eval $::sql
  } $result
} $result

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
  }
} {,.program.is.free,software}
do_test func-24.9 {
  execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
  }
} {,,,,software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
  }
} {program,.is,free,software}
do_test func-24.11 {
  execsql {
    SELECT group_concat(CASE WHEN t1!=:'software' THEN null ELSE t1 END) FROM tbl1
  }
} {,software}
do_test func-24.12 {
  execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ''
      WHEN 'program' THEN null ELSE t1 END) FROM tbl1
  }
} {,.is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
  execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
  abuse_create_function db
} {}
# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "

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SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}
# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
db eval {
CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
}
catchsql {
INSERT INTO t28(x) VALUES(1);
}
} {1 {unknown function: nosuchfunc()}}
# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
db eval {

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CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
INSERT INTO t29 VALUES(5, "hello", 7);
}
db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}
do_test func-29.3 {
$db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[[permutation] != "mmap"]} {
do_test func-29.4 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x>100} {set x many}
set x
} {many}
}
do_test func-29.5 {
$db close
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}
do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]
for {set i 1} {$i<0xd800} {incr i 13} {
do_execsql_test func-30.5.$i [SELECT unicode(char($i))] $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
    if {$i==0xfeff} continue
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
finish_test

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<body bgcolor="white">
<h1 align="center">
Copyright Release for<br>
Contributions To SQLite
</h1>

<p>
SQLite is software that implements an embeddable SQL database engine. SQLite is available for free download from http://www.sqlite.org/. The principal author and maintainer of SQLite has disclaimed all copyright interest in his contributions to SQLite and thus released his contributions into the public domain. In order to keep the SQLite software unencumbered by copyright claims, the principal author asks others who may from time to time contribute changes and enhancements to likewise disclaim their own individual copyright interest.
</p>

<p>
Because the SQLite software found at http://www.sqlite.org/ is in the public domain, anyone is free to download the SQLite software from that website, make changes to the software, use, distribute, or sell the modified software, under either the original name or under some new name, without any need to obtain permission, pay royalties, acknowledge the original source of the software, or in any other way compensate, identify, or notify the original authors. Nobody is in any way compelled to contribute their SQLite changes and enhancements back to the SQLite website. This document concerns only changes and enhancements to SQLite that are intentionally and deliberately contributed back to the SQLite website.
</p>
For the purposes of this document, "SQLite software" shall mean any computer source code, documentation, makefiles, test scripts, or other information that is published on the SQLite website, http://www.sqlite.org/. Precompiled binaries are excluded from the definition of "SQLite software" in this document because the process of compiling the software may introduce information from outside sources which is not properly a part of SQLite.

The header comments on the SQLite source files exhort the reader to share freely and to never take more than one gives. In the spirit of that exhortation I make the following declarations:

I dedicate to the public domain any and all copyright interest in the SQLite software that was publicly available on the SQLite website (http://www.sqlite.org/) prior to the date of the signature below and any changes or enhancements to the SQLite software that I may cause to be published on that website in the future. I make this dedication for the benefit of the public at large and to the detriment of my heirs and successors. I intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to the SQLite software under copyright law.

To the best of my knowledge and belief, the changes and enhancements that I have contributed to SQLite are either originally written by me or are derived from prior works which I have verified are also in the public domain and are not subject to claims of copyright by other parties.

To the best of my knowledge and belief, no individual, business, organization, government, or other entity has any copyright interest in the SQLite software as it existed on the SQLite website as of the date on the signature line below.
I agree never to publish any additional information
to the SQLite website (by CVS, email, scp, FTP, or any other means) unless
that information is an original work of authorship by me or is derived from
prior published versions of SQLite.
I agree never to copy and paste code into the SQLite code base from
other sources.
I agree never to publish on the SQLite website any information that
would violate a law or breach a contract.

Signature:

Date:

Name (printed):

Table

<a href="copyright.html">public domain</a> and is thus free for

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WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/; and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate
responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

<h3>1.3 Consortium Member</h3>
A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

<h2>2.0 Agreement</h2>
<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>
<h4>2.1.1 General Support</h4>
The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support
and bug-fix patches for any historical version of SQLite.
</p>

<h4>2.1.6 Custom Testing</h4>
<p>The SQLite Developers shall at Company's request set up and run
acceptance tests according Company's specifications that are specifically
designed to exercise SQLite as configured and used by Company.
These acceptance tests shall be run and shall pass prior to any release
of SQLite.
</p>

<h4>2.1.7 Priority Bug Fixes</h4>
<p>The SQLite Developers shall assign highest priority to fixing bugs
in SQLite that are reported by Company or in which Company has
expressed a specific interest.
</p>

<h4>2.1.8 Code Quality</h4>
<p>The SQLite Developers shall at all times keep the SQLite source
code well commented and documented and clearly structured and
organized so that an experienced and competent programmer can
understand it and support it after no more than a few months of study.
</p>

<h4>2.1.9 Backwards Compatibility</h4>
<p>The SQLite Developers recognize that Company uses SQLite
in mission-critical applications and therefore shall work diligently
to ensure continuing bug-free correct operation and backwards
compatibility with prior releases.
</p>

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such
that no less than 95% source code coverage is provided.
</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at
http://www.sqlite.org/ in good working order and all SQLite source code shall
be made freely available at such website.
</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company,
provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

<h4>2.2.2 Direction</h4>
<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

<h4>2.2.3 Oversight</h4>
<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.
2.3.4 Mentorship

Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.

2.3.5 Audits

Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.

2.3.6 Disaster Planning

Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

2.3.7 Trademark

Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.

2.3.8 No Take-overs or Buy-outs

Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

2.3.9 New Consortium Members

New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.

2.3.10 Adequate Staff
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

<h4>2.3.11 Use Of Funds</h4>
<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".</p>

<h4>2.4.2 Copyright Disclaimer</h4>
<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.</p>

<h2>3.0 Fees</h2>
<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>
<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information.
disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

<h3>4.2 Non-Use and Non-Disclosure.</h3>

<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.</p>

<h4>4.2.1 Disclosure Required by Law</h4>

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of
5.0 Intellectual Property

5.1 No Assignment

Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.

5.2 Availability and Public Domain Dedication

The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.

5.3 Trademark

Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems
appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark. 

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except:
Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

<h3>8.2 Notices.</h3>

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right
or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

<h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

<h3>8.5 Integration.</h3>

<p>This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.</p>

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>

<h3>8.8 Independent Contractors.</h3>
It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

9.0 Signatures

The parties have executed this Agreement below to indicate their acceptance of its terms.

<table>
<thead>
<tr>
<th>HWACI</th>
<th>COMPANY</th>
</tr>
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<tbody>
<tr>
<td>By:</td>
<td>By:</td>
</tr>
<tr>
<td>Print Name:</td>
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<td>Title:</td>
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Found in path(s):

1.866 axis2-ant-plugin 1.7.9

1.866.1 Available under license:

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Portions of the included xmlbeans library were originally based on the following:

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TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

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and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

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1.867 gawk 4.0.2

1.867.1 Available under license :

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Version 3, 29 June 2007

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
devices used in Cisco Emergency Responder 14Su1 MFG 9952

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

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"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees" and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.
You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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1.874 nss-util 3.44.0-4.el7_7

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1.875 tiger-types 1.4

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.
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Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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> Sent: Monday, October 01, 2007 8:15 PM
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-Dmike

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additional code, so whatever licensing y'all come up with is fine by me.

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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
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My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
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yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

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Nathan Neulinger is the only one who can actually make said change ...
-mike
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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>

Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
e-mail
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively
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  > > decision as to what licensing scheme y'all want. I haven't really done
  > > much other than cleaning up the packaging and patches and a small
  > > bit of
  > > additional code, so whatever licensing y'all come up with is fine
  > > by me.
  >
  > I am sympathetic. Guys, what do you reckon?
  >
  > What I am hearing so far is that LGPL makes sense, since it can be
  > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable

timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
  > On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
  > > > Seems like the ideal thing here would be for you and the other distro
  > > > maintainers to get together with Alec in a conversation and come to a
  > > > decision as to what licensing scheme y'all want. I haven't really done
  > > > much other than cleaning up the packaging and patches and a small
  > > > bit of
  > > > additional code, so whatever licensing y'all come up with is fine
  > > > by me.
  > >
  > > I am sympathetic. Guys, what do you reckon?
  > >
What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL... 

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

Mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
>
> yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> >
> > yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

Mike
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> 
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.877 woodstox-core 6.2.1

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1.879 coreutils 8.22 24.el7

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/* chown-core.c -- core functions for changing ownership.
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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

#include <config.h>
#include <stdio.h>
#include <sys/types.h>
#include <pwd.h>
#include <grp.h>

#include "system.h"
#include "chown-core.h"
#include "error.h"
#include "ignore-value.h"
#include "quote.h"
#include "root-dev-ino.h"
#include "xfts.h"

#define FTSENT_IS_DIRECTORY(E) \
  ((E)->fts_info == FTS_D \n   || (E)->fts_info == FTS_DC \n   || (E)->fts_info == FTS_DP \n   || (E)->fts_info == FTS_DNR)

enum RCH_status
{
  /* we called fchown and close, and both succeeded */
  RC_ok = 2,

  /* required_uid and/or required_gid are specified, but don't match */
  RC_excluded,

  /* SAME_INODE check failed */
  RC_inode_changed,

  /* open/fchown isn't needed, isn't safe, or doesn't work due to
   permissions problems; fall back on chown */
  RC_do_ordinary_chown,
/* open, fstat, fchown, or close failed */
RC_error
;

extern void
chopt_init (struct Chown_option *chopt)
{
  chopt->verbosity = V_off;
  chopt->root_dev_ino = NULL;
  chopt->affect_symlink_referent = true;
  chopt->recurse = false;
  chopt->force_silent = false;
  chopt->user_name = NULL;
  chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
  /* Deliberately do not free chopt->user_name or ->group_name.
     They're not always allocated. */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory,
   and return it. If there's no corresponding group name, use the decimal
   representation of the ID. */
extern char *
gid_to_name (gid_t gid)
{
  char buf[INT_BUFSIZE_BOUND (intmax_t)];
  struct group *grp = getgrgid (gid);
  return xstrdup (grp ? grp->gr_name
                     : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
                     : umaxtostr (gid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory,
   and return it. If there's no corresponding user name, use the decimal
   representation of the ID. */
extern char *
uid_to_name (uid_t uid)
{
  char buf[INT_BUFSIZE_BOUND (intmax_t)];
  struct passwd *pwd = getpwuid (uid);
  return xstrdup (pwd ? pwd->pw_name
                    : TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
                    : umaxtostr (uid, buf))

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static char *
user_group_str(char const *user, char const *group)
{
    char *spec = NULL;
    if (user)
    {
        if (group)
        {
            spec = xmalloc(strlen(user) + 1 + strlen(group) + 1);
            stpcpy(stpcpy(stpcpy(spec, user), ":"), group);
        }
        else
        {
            spec = xstrdup(user);
        }
    }
    else if (group)
    {
        spec = xstrdup(group);
    }
    return spec;
}

/* Tell the user how/if the user and group of FILE have been changed.
   If USER is NULL, give the group-oriented messages.
   CHANGED describes what (if anything) has happened. */

static void
describe_change(const char *file, enum Change_status changed,
    char const *old_user, char const *old_group,
    char const *user, char const *group)
{
    const char *fmt;
    char *old_spec;
    char *spec;
    if (changed == CH_NOT_APPLIED)
    {
        printf(_("neither symbolic link %s nor referent has been changed\n"),
            quote(file));
        return;
    }
spec = user_group_str (user, group);
old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

switch (changed)
{
    case CH_SUCCEEDED:
        fmt = (user ? _("changed ownership of %s from %s to %s\n")
               : group ? _("changed group of %s from %s to %s\n")
               : _("no change to ownership of %s\n"));
        break;
    case CH_FAILED:
        if (old_spec)
        {
            fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
                    : group ? _("failed to change group of %s from %s to %s\n")
                    : _("failed to change ownership of %s\n"));
        }
        else
        {
            fmt = (user ? _("failed to change ownership of %s to %s\n")
                    : group ? _("failed to change group of %s to %s\n")
                    : _("failed to change ownership of %s\n"));
        }
        free (old_spec);
        old_spec = spec;
        spec = NULL;
        break;
    case CH_NO_CHANGE_REQUESTED:
        fmt = (user ? _("ownership of %s retained as %s\n")
               : group ? _("group of %s retained as %s\n")
               : _("ownership of %s retained\n"));
        break;
    default:
        abort ();
    }

PRINTF (fmt, quote (file), old_spec, spec);

free (old_spec);
free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
   only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
   of FILE. ORIG_ST must be the result of 'stat'ing FILE. */
The ‘safely’ part above means that we can’t simply use chown(2), since FILE might be replaced with some other file between the time of the preceding stat/lstat and this chown call. So here we open FILE and do everything else via the resulting file descriptor. We first call lstat and verify that the dev/inode match those from the preceding stat call, and only then, if appropriate (given the required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can’t open FILE, or if FILE is a special file that might have undesirable side effects when opening. In this case the caller can use the less-safe ordinary chown.

Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
    struct stat const *orig_st,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid)
{
    enum RCH_status status = RC_ok;
    struct stat st;
    int open_flags = O_NONBLOCK | O_NOCTTY;
    int fd;

    if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
        return RC_do_ordinary_chown;

    if (! S_ISREG (orig_st->st_mode))
    {
        if (S_ISDIR (orig_st->st_mode))
            open_flags |= O_DIRECTORY;
        else
            return RC_do_ordinary_chown;
    }

    fd = openat (cwd_fd, file, O_RDONLY | open_flags);
    if (! (0 <= fd

    || (errno == EACCES && S_ISREG (orig_st->st_mode)

    && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))))
        return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

    if (fstat (fd, &st) != 0)
        status = RC_error;
    else if (! SAME_INODE (*orig_st, st))
        status = RC_inode_changed;
    else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)

    && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
if (fchown (fd, uid, gid) == 0)
{
    status = (close (fd) == 0
                 ? RC_ok : RC_error);
    return status;
} else
{
    status = RC_error;
}
}

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;

/* Change the owner and/or group of the file specified by FTS and ENT
to UID and/or GID as appropriate.
If REQUIRED_UID is not -1, then skip files with any other user ID.
If REQUIRED_GID is not -1, then skip files with any other group ID.
CHOPT specifies additional options.
Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
                   uid_t uid, gid_t gid,
                   uid_t required_uid, gid_t required_gid,
                   struct Chown_option const *chopt)
{
    char const *file_full_name = ent->fts_path;
    char const *file = ent->fts_accpath;
    struct stat const *file_stats;
    struct stat stat_buf;
    bool ok = true;
    bool do_chown;
    bool symlink_changed = true;

    switch (ent->fts_info)
    {
    case FTS_D:
        if (chopt->recurse)
        {
            if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
            {
                /* This happens e.g., with "chown -R --preserve-root 0 /
                   and with "chown -RH --preserve-root 0 symlink-to-root". */
ROOT_DEV_INO_WARN (file_full_name);
/* Tell fts not to traverse into this hierarchy. */
fts_set (fts, ent, FTS_SKIP);
/* Ensure that we do not process "/" on the second visit. */
ignore_value (fts_read (fts));
return false;
}
return true;
}
break;

case FTS_DP:
if (! chopt->recurse)
return true;
break;

case FTS_NS:
/* For a top-level file or directory, this FTS_NS (stat failed) 
   indicator is determined at the time of the initial fts_open call. 
   With programs like chmod, chown, and chgrp, that modify 
   permissions, it is possible that the file in question is 
   accessible when control reaches this point. So, if this is 
   the first time we've seen the FTS_NS for this file, tell 
   fts_read to stat it "again". */
if (ent->fts_level == 0 && ent->fts_number == 0)
{
    ent->fts_number = 1;
    fts_set (fts, ent, FTS_AGAIN);
    return true;
}
if (! chopt->force_silent)
error (0, ent->fts_errno, _(_("cannot access \%s")),
quote (file_full_name));
ok = false;
break;

case FTS_ERR:
if (! chopt->force_silent)
error (0, ent->fts_errno, _("cannot access \%s"),
quote (file_full_name));
ok = false;
break;

case FTS_DNR:
if (! chopt->force_silent)
error (0, ent->fts_errno, _("cannot read directory \%s"),
quote (file_full_name));
ok = false;
break;
case FTS_DC: /* directory that causes cycles */
    if (cycle_warning_required (fts, ent))
    {
        emit_cycle_warning (file_full_name);
        return false;
    }
    break;

    default:
    break;
}

if (!ok)
{
    do_chown = false;
    file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
    && chopt->verbosity == V_off
    && ! chopt->root_dev_ino
    && ! chopt->affect_symlink_referent)
{
    do_chown = true;
    file_stats = ent->fts_statp;
}
else
{
    file_stats = ent->fts_statp;

    /* If this is a symlink and we're dereferencing them,
       stat it to get info on the referent. */
    if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
    {
        if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
        {
            if (! chopt->force_silent)
                error (0, errno, _("cannot dereference %s"),
                        quote (file_full_name));
            ok = false;
        }
    }

    file_stats = &stat_buf;
}

    do_chown = (ok
        && (required_uid == (uid_t) -1
            || required_uid == file_stats->st_uid)
&& (required_gid == (gid_t) -1
|| required_gid == file_stats->st_gid));

/* This happens when chown -LR --preserve-root encounters a symlink-to-/. */
if (ok
&& FTSENT_IS_DIRECTORY (ent)
&& ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}

if (do_chown)
{
    if (! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);

        /* Ignore any error due to lack of support; POSIX requires
         * this behavior for top-level symbolic links with -h, and
         * implies that it's required for all symbolic links. */
        if (!ok && errno == EOPNOTSUPP)
        {
            ok = true;
            symlink_changed = false;
        }
    }
    else
    {
        /* If possible, avoid a race condition with --from=O:G and without the
        * (-h) --no-dereference option. If fts's stat call determined
        * that the uid/gid of FILE matched the --from=O:G-selected
        * owner and group IDs, blindly using chown(2) here could lead
        * chown(1) or chgrp(1) mistakenly to dereference a *symlink*
        * to an arbitrary file that an attacker had moved into the
        * place of FILE during the window between the stat and
        * chown(2) calls. If FILE is a regular file or a directory
        * that can be opened, this race condition can be avoided safely. */

        enum RCH_status err
        = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                           required_uid, required_gid);
        switch (err)
        {
        case RC_ok:
            break;
        
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case RC_do_ordinary_chown:
    ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
    break;

case RC_error:
    ok = false;
    break;

case RC_inode_changed:
    /* FIXME: give a diagnostic in this case? */
    case RC_excluded:
        do_chown = false;
        ok = false;
        break;

default:
    abort ();
    }
}

/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */

if (do_chown && !ok && ! chopt->force_silent)
    error (0, errno, (uid != (uid_t) -1
    ? _("changing ownership of %s")
    : _("changing group of %s")),
    quote (file_full_name));
}

if (chopt->verbosity != V_off)
{
    bool changed =
    ((do_chown && ok && symlink_changed)
    && ! ((uid == (uid_t) -1 || uid == file_stats->st_uid)
    && (gid == (gid_t) -1 || gid == file_stats->st_gid)));

    if (changed || chopt->verbosity == V_high)
    {
        enum Change_status ch_status =
        (!ok ? CH_FAILED
        : !symlink_changed ? CH_NOT_APPLIED
        : !changed ? CH_NO_CHANGE_REQUESTED
        : CH_SUCCEEDED);
        
        /* This should be done under a lock */
        ch_status = ...
        
        /* Now ok is set to the value of ch_status */
        
        chstatus (file, ch_status);
    
    }
char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
describe_change (file_full_name, ch_status,
    old_usr, old_grp,
    chopt->user_name, chopt->group_name);
free (old_usr);
free (old_grp);
}
}

if ( ! chopt->recurse)
    fts_set (fts, ent, FTS_SKIP);
return ok;
}

/* Change the owner and/or group of the specified FILES.  
   BIT_FLAGS specifies how to treat each symlink-to-directory 
   that is encountered during a recursive traversal. 
   CHOPT specifies additional options. 
   If UID is not -1, then change the owner id of each file to UID. 
   If GID is not -1, then change the group id of each file to GID. 
   If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only 
   files with user ID and group ID that match the non-(-1) value(s). 
   Return true if successful. */
extern bool
chown_files (char **files, int bit_flags,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid,
    struct Chown_option const *chopt)
{
    bool ok = true;

    /* Use lstat and stat only if they're needed. */
    int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1
        || chopt->affect_symlink_referent
        || chopt->verbosity != V_off)
        ? 0
        : FTS_NOSTAT);

    FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);

    while (1)
    {
        FTSENT *ent;

        ent = fts_read (fts);
        if (ent == NULL)
{ if (errno != 0) {
  /* FIXME: try to give a better message */
  if (! chopt->force_silent)
    error (0, errno, _("fts_read failed");
  ok = false;
  } break;
}

ok &= change_file_owner (fts, ent, uid, gid, required_uid, required_gid, chopt);
}

if (fts_close (fts) != 0)
{
  error (0, errno, _("fts_close failed");
  ok = false;
}

return ok;
}

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1.880 dtd-parser 1.0
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1.881 ICU 57
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```makefile
## -*-makefile-*-
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
```
## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
$(SHELL) -ec "$(GEN_DEPS.c) $< \ | sed \"s/(\$*).o[ :]*/\1.o $@ : /g\" > $@; \ [-s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
$(SHELL) -ec "$(GEN_DEPS.cc) $< \ | sed \"s/(\$*).o[ :]*/\1.o $@ : /g\" > $@; \ [-s $@ ] || rm -f $@"

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(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 =
### End BSD-specific setup

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David Megginson, david@megginson.com
2000-05-05

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1.891 strace 1.0

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Ty Coon, President of Vice

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1.893 gdb 7.6.1-114.el7
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#! /usr/bin/env python
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#
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"""copyright.py
This script updates the list of years in the copyright notices in
most files maintained by the GDB project.
Usage: cd src/gdb && python copyright.py
Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""
import datetime
import os
import os.path
import subprocess

def get_update_list():
"""Return the list of files to update.
Assumes that the current working directory when called is the root
of the GDB source tree (NOT the gdb/ subdirectory!). The names of

Open Source Used In Cisco Emergency Responder 14Su1 MFG 10206


the files are relative to that root directory.

```python
result = []
for gdb_dir in ('gdb', 'sim', 'include/gdb'):
    for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
            reldirname = "%s/%s" % (root, dirname)
            if (dirname in EXCLUDE_ALL_LIST
                or reldirname in EXCLUDE_LIST
                or reldirname in NOT_FSF_LIST
                or reldirname in BY_HAND):
                # Prune this directory from our search list.
                dirs.remove(dirname)
        for filename in files:
            relpath = "%s/%s" % (root, filename)
            if (filename in EXCLUDE_ALL_LIST
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
            else:
                result.append(relpath)
    return result
```

def update_files(update_list):  
    """Update the copyright header of the files in the given list.
    
    We use gnulib's update-copyright script for that.
    """

    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
For each of those, do a sanity check and see if they may in fact have one. For the files that are found not to have one, we filter the line out from the output, since there is nothing more to do, short of looking at each file and seeing which notice is appropriate. # Too much work! (~4,000 files listed as of 2012-01-03).

```python
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)

for line in update_out:
    if line.endswith('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root directory.

    The algorithm is fairly crude, meaning that it might return some false positives. I do not think it will return any false negatives... We might improve this function to handle more complex cases later...
    """
    # For now, it may have a copyright notice if we find the word "Copyright" at the (reasonable) start of the given file, say # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
    if lineno > 50:
        return False
    return False
```
def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"): 
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.isdir(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand."
        "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

############################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
############################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = ( 
    'gdb/CONTRIBUTE',
    'gdb/gnulib'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = ( 
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
"fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcpro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-acccf.p"e",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",}
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.c", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()

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@enumerate 0
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[This is the first released version of the library GPL. It is
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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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(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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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the **Lesser** General Public License because it does **less** to protect the user's freedom than the ordinary General Public License. It also provides other free software developers **less** of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is **less** protective of the
users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

BEGIN[
  FS="";
  print "/* Do not modify this file!! */
  ".*- buffer-read-only: t -*- vi"
  ":set ro:"
  print " It is created automatically by copying.awk."
  print " Modify copying.awk instead. <= *=/"
  print ""
  print "#include \defs.h"
  print "#include \command.h"
  print "#include \gdbcmd.h"
  print ""
  print "static void show_copying_command (char *, int);"
  print ""
  print "static void show_warranty_command (char *, int);"
  print ""
  print "void _initialize_copying (void);"
  print ""
  print "static void";
  print "show_copying_command (char *ignore, int from_tty);"
  print "{";
}
NR == 1;/^[ ]*15\. Disclaimer of Warranty\[ ]*$/{
  if ($0 ~ //)
  {
    printf " printf_filtered ("\n\n"
  } else if ($0 !~ /[^ ]*15\. Disclaimer of Warranty\[ ]*$/)
  {
    printf " printf_filtered ("\n";
for (i = 1; i < NF; i++)
    printf "\%s\n\n", $i;
    printf "\%s\n\n", $NF;
}
}

END

print "}

print "static void"
print "show_warranty_command (char *ignore, int from_tty)"
print "{"
    printf_filtered ("\n");
    for (i = 1; i < NF; i++)
        printf "\%s\n\n", $i;
    printf "\%s\n\n", $NF;
}
}

END

print "}

print "void"
print "_initialize_copying (void)"
print "}

print " add_cmd ("copying", no_set_class, show_copying_command,";
print " _("Conditions for redistributing copies of GDB."),";
print " &showlist);"
print " add_cmd ("warranty", no_set_class, show_warranty_command,";
print " _("Various kinds of warranty you do not have."),";
print " &showlist);"
print " /\n
print " /* For old-timers, allow "info copying", etc. */";
print " add_info ("copying", show_copying_command,";
print " _("Conditions for redistributing copies of GDB."));"
print " add_info ("warranty", show_warranty_command,";
print " _("Various kinds of warranty you do not have."));"
print "}";
}

1.894 chkconfig 1.7.4 1.el7
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* @since 3.1
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  jar/org/springframework/web/servlet/view/ViewResolverComposite.java
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*/
/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
* 
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [ @link #locateSource detected ] during response rendering. Users can either specify
* a specific entry in the model via the [ @link #setSourceKey sourceKey ] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [ @link #getSourceTypes() here ]
* for more details.
* 
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [ @link #setOutputProperties output properties]
* to be passed to the Transformer.
* 
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/
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* /opt/cola/permits/116717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
jar/org/springframework/web/servlet/function/DefaultAsyncServerResponse.java
* /opt/cola/permits/116717727_1621845526.89/0/spring-webmvc-5-3-7-sources-
jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java

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jar/org/springframework/web/servlet/function/PathResourceLookupFunction.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources.jar/org/springframework/web/servlet/function/ServerRequest.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources.jar/org/springframework/web/servlet/view/XmlViewResolver.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources.jar/org/springframework/web/servlet/handler/AbstractHandlerMethodExceptionResolver.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources.jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources.jar/org/springframework/web/servlet/handler/RequestMatchResult.java
* /opt/cola/permits/1167717727_1621845526.89/0/spring-webmvc-5-3-7-sources.jar/org/springframework/web/servlet/HandlerExecutionChain.java
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1.911 codemodel 2.6

1.912 dosfs-tools 3.0.20

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jar/org/springframework/aop/aspectj/annotation/DefaultScopedObject.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
jar/org/springframework/aop/aspectj/ReflectiveMethodInvocation.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
jar/org/springframework/aop/framework/BeanFactoryAdvisorRetrievalHelper.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
jar/org/springframework/aop/framework/StaticMethodMatcherPointcut.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
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jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
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jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
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jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1-
jar/org/springframework/aop/support/IntroductionInfoSupport.java

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*  /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1.jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
*  /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1.jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1.jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
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* /opt/cola/permits/1136045379_1613665198.74/0/spring-aop-3-1-4-release-sources-1.jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
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<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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A copy of the GNU Lesser General Public License 2.1 is available as
Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

----------------------------------------------------------

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under= r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

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library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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> applications are also GPL-2 which IMO is just wrong. it isn't the
place of a
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
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> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
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I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL.

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin
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> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
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> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
> 
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxptr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon,  1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@g...> - 2007-10-02 01:16

Attachments: Message as HTML
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From: Neulinger, Nathan <nneul@umr.edu> - 2007-10-02 01:18
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-- Nathan

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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
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-mike
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I am sympathetic. Guys, what do you reckon?

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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
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-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.
The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

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From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC (6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC (6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtp020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 11cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.933 openssl 1.1.1k

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*
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* 
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Version 2.1, February 1999

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1.936 commons-lang3 2.4

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1.937 pkg-config 0.27.1 4.el7

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.942 d-conf 0.28.0 4.el7

1.943 dc 1.3
1.943.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-Swift/ViewController.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h

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<string>The DCPathButton use the MIT license</string>

Pod::Spec.new do |s|
  s.name = "DCPathButton"
  s.version = "2.1.1"
  s.summary = "A beautiful button copy from Path®"

  s.description = <<-DESC
DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :) DESC

  s.homepage = "https://github.com/Tangdixi/DCPathButton"
end
s.license  = {
  :type => 'MIT',
  :text => 'The DCPathButton use the MIT license'
}

s.author     = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform   = :ios, '7.0'

s.source     = {
  :git => "https://github.com/Tangdixi/DCPathButton.git",
  :tag => "2.1.1"
}

s.source_files = 'DCPathButton/Classes/*.h{m}'

s.resources  = ['DCPathButton/Sounds/*']

s.frameworks = 'QuartzCore', 'AudioToolbox'

s.requires_arc = true

end

Found in path(s):
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
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## DCPathButton

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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.markdown
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Found in path(s):
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/README.md
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButto
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Found in path(s):
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/LIENCE

1.944 openssh 7.5-p1

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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
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[The licence continues]

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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.945 qrencode 3.4.1 3.el7

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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1.955 coverage 3.6b3
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Metadata-Version: 1.1
Name: coverage
Version: 3.6b3
Summary: Code coverage measurement for Python
Home-page: http://nedbatchelder.com/code/coverage/3.6b3
Author: Ned Batchelder and others
Author-email: ned@nedbatchelder.com
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Description: Coverage.py measures code coverage, typically during test execution. It uses the code analysis tools and tracing hooks provided in the Python standard library to determine which lines are executable, and which have been executed.

Coverage.py runs on Pythons 2.3 through 3.3, and PyPy 1.9.

Documentation is at `nedbatchelder.com <http://nedbatchelder.com/code/coverage/3.6b3>`_. Code repository and issue tracker are at `bitbucket.org <http://bitbucket.org/ned/coveragepy>`_.

New in 3.6: `--fail-under`, and >20 bugs closed.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files can be reported.

New in 3.3: .coveragerc files.

New in 3.2: Branch coverage!
Keywords: code coverage testing
Platform: UNKNOWN
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Quality Assurance
Classifier: Topic :: Software Development :: Testing
Classifier: Development Status :: 4 - Beta

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* 
* Includes Sizzle.js
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* Date: Thu Oct 14 23:10:06 2010 -0400
*/

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*
* @version 1.2.0
*/

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  3.6b3/coverage/htmlfiles/jquery.isonscreen.js
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* jQuery Hotkeys Plugin
* Copyright 2010, John Resig
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*
* Based upon the plugin by Tzury Bar Yochay:
* http://github.com/tzuryby/hotkeys
*
* Original idea by:
*/

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* QUnit - A JavaScript Unit Testing Framework
*
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/**
 * jsDump
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
 * Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
 * Date: 5/15/2008
 * @projectDescription Advanced and extensible data dumping for Javascript.
 * @version 1.0.0
 * @author Ariel Flesler
 * @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
 */

/*
 * Javascript Diff Algorithm
 * By John Resig (http://ejohn.org/)
 * Modified by Chu Alan "sprite"
 *
 * Released under the MIT license.
 *
 * More Info:
 * http://ejohn.org/projects/javascript-diff-algorithm/
 *
 * Usage: QUnit.diff(expected, actual)
 *
 * QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the quick <del>brown </del> fox <del>jumped </del><ins>jumps </ins> over"
 */

Found in path(s):
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 * jQuery Templates Plugin 1.0.0pre
 * http://github.com/jquery/jquery-tmpl
 * Requires jQuery 1.4.2
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1.956 core-aspects 1.2.21
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1.961 pcre 8.32 17.el7

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b,out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.
Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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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.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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 */

/** 
 * A decoder that splits the received ByteBuf's dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 */
* [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.

* The value of the length field in this example is `12 (0x0C)` which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.

* **2 bytes length field at offset 0, do not strip header**

* The value of the length field in this example is `12 (0x0C)` which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.

```
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
```

* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* **2 bytes length field at offset 0, strip header**

* Because we can get the length of the content by calling
* the readableBytes() method, you might want to strip the length
* field by specifying `initialBytesToStrip`. In this example, we
* specified `2`, that is same with the length of the length field, to
* strip the first two bytes.

```
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 2 (= the length of the Length field)
```

* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* **2 bytes length field at offset 0, do not strip header, the length field
  represents the length of the whole message**
In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero <tt>lengthAdjustment</tt>. Because the length value in this example message is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> as <tt>lengthAdjustment</tt> for compensation.

* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero <tt>lengthAdjustment</tt>. Because the length value in this example message is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> as <tt>lengthAdjustment</tt> for compensation.

```
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFOERE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* The following message is a simple variation of the first example. An extra header value is prepended to the message. <tt>lengthAdjustment</tt> is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```
* lengthFieldOffset   = <b>2</b> (= the length of Header 1)
* lengthFieldLength   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
* 
* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive <tt>lengthAdjustment</tt> so that the decoder counts the extra header into the frame length calculation.

```
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* ```
* <b>lengthAdjustment</b> = 2 (= the length of Header 1)
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+

* </pre>*

* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>

* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+

* </pre>*

* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----------------+------------------+
* | HDR1 | Length | HDR2 | Actual Content |    | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |    | 0xFE | "HELLO, WORLD" |
* +-----------------+------------------+
* </pre>
* @see LengthFieldPrepender
*/

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* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1.jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1.jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1.jar/io/netty/handler/codec/protocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java

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/*
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
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* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
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  jar/io/netty/handler/codec/json/package-info.java
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  jar/io/netty/handler/codec/json/JsonObjectDecoder.java
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  jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2Rand.java
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  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/LzmaFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
jar/io/netty/handler/compression/Bzip2BlockCompressor.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/FastLzFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/Lz4Constants.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/Bzip2Encoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/SnappyFramedDecoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/Crc32.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/DecoderResultProvider.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/SnappyFramedEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/AsciiHeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/LzfDecoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
jar/io/netty/handler/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
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  jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
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  jar/io/netty/handler/codec/CodecException.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/MessageToMessageEncoder.java
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  jar/io/netty/handler/codec/serialization/ClassResolvers.java
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  jar/io/netty/handler/codec/ByteToMessageDecoder.java
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  jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1073009122_1595250149.97/0/netty-codec-4-1-33-final-sources-1-
  jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
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  jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
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  jar/io/netty/handler/codec/MessageAggregator.java
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  jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
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  jar/io/netty/handler/codec/compression/ZlibEncoder.java
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jar/io/netty/handler/codec/compression/CompressionUtil.java
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/**
/* Utility class for {@link ByteBuf} that encodes and decodes to and from
/* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
/* <p>
/* The encoding and decoding algorithm in this class has been derived from
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/* Base64 Encoder/Decoder</a>.
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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.1000 forgerock-guava-base 18.0.4

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1.1003 object-model 1.0.27

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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 3a0982da308228d796df35f98d787c5c1f2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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  jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/package-info.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DnsQuestion.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DnsRawRecord.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DefaultDnsMessageEncoder.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DnsRecordType.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DnsResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DnsResponse.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
  jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-
jar/io/netty/handler/codec/dns/DnsRecord.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
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* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-jar/io/netty/handler/codec/dns/DnsOptPseudoRrRecord.java
* /opt/ws_local/PERMITS_SQL/1068906666_1594434257.29/0/netty-codec-dns-4-1-33-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
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1.1007 stlport 5.2.1
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 */

#ifndef _STLP_CLIMITS
#define _STLP_CLIMITS

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x108
#include <stl/_prolog.h>

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x108
#include <stl/prolog.h>
#endif

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#endif

#if defined (__SUNPRO_CC) && ((__SUNPRO_CC == 0x500) && (__SUNPRO_CC_COMPAT > 4))
# include <usr/include/limits.h>
#endif

#if defined (_STLP_USE_NEW_C_HEADERS)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <climits>
#else
# include _STLP_NATIVE_CPP_C_HEADER(climits)
#endif
# endif
#else
# if defined (__BORLANDC__)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <limits.h>
#else
# include _STLP_NATIVE_C_HEADER(limits.h)
#endif
#else
# include <limits.h>
#endif
#endif /* _STLP_CLIMITS */

#if (_STLP_OUTERMOST_HEADER_ID == 0x108 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CLIMITS */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/climits
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*/

#ifndef _STLP_VECTOR
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x77
#include <stl/prolog.h>
#define _STLP_VECTOR
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x77)
#ifndef _STLP_INTERNAL_ALGOBASE_H
#include <stl/algobase.h>
#endif
#ifndef _STLP_INTERNAL_VECTOR_H
#include <stl/vector.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x77) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <vector>
#else
#include _STLP_NATIVE_HEADER(vector)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x77)
#include <stl/epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_VECTOR */

// Local Variables:
// mode:C++
// End:
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 */

#ifndef _STLP_CWCHAR

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x120
#define _STLP_CWCHAR
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x120)
#include <stl/_cwchar.h>
#undef _STLP_CWCHAR
#endif

#endif /* _STLP_CWCHAR */
// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_debug.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_iterator.h
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#ifdef _STLP_NUMERIC

#ifdef _STLP_OUTERMOST_HEADER_ID
  # define _STLP_OUTERMOST_HEADER_ID 0x49
  # include <stl/_prolog.h>
  # define _STLP_NUMERIC
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
  # ifndef _STLP_INTERNAL_NUMERIC_H
  # include <stl/_numeric.h>
  # endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x49) || defined (_STLP_IMPORT_VENDOR_STD)
  #if defined (_STLP_HAS_INCLUDE_NEXT)
    #include_next <numeric>
  #else
    #include _STLP_NATIVE_HEADER(numeric)
  #endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x49)
  # include <stl/_epilog.h>
  # undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_NUMERIC */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1.tar.gz/STLport-5.2.1/stl/_bitset.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1.tar.gz/STLport-5.2.1/stl/_bitset.h
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 */

#ifndef _STLP_STREAMBUF

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1066
#undef _STLP_STREAMBUF
#endif
#include <stl/_prolog.h>
#define _STLP_STREAMBUF
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1066) &&
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>
#endif

#ifndef _STLP_INTERNAL_STREAMBUF
#include <stl/_streambuf.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1066) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <streambuf>
#else
#include _STLP_NATIVE_HEADER(streambuf)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1066)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_STREAMBUF */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/streambuf

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TEST_CONSTRUCT.H

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 * */
#ifndef _STLP_STRING

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x68
#include <stl/_prolog.h>
#define _STLP_STRING
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x68)
#ifndef _STLP_INTERNAL_STRING_H
#include <stl/_string.h>
#endif
#ifndef _STLP_STRING_HASH_H
#include <stl/_string_hash.h>
#endif
#if !defined (_STLP_USE_NO_IOSTREAMS) && !defined (_STLP_STRING_IO_H)
#include <stl/_string_io.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x68) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <string>
#else
#include _STLP_NATIVE_HEADER(string)
#endif
#endif
#endif /* _STLP_STRING */

#if (_STLP_OUTERMOST_HEADER_ID != 0x68) || defined (_STLP_IMPORT_VENDOR_STD)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_STRING */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* Derived from original <misc/type_traits.h> of 'complement' project
* [http://complement.sourceforge.net]
* to make it close to JTC1/SC22/WG21 C++ 0x working draft
* [http://www.open-std.org/Jtc1/sc22/wg21/docs/papers/2008/n2521.pdf]
*/

Found in path(s):
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ThrowCompare.h

Interface for the ThrowCompare class
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  test_slist.cpp

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  TestClass.cpp

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 *
 */

#ifndef _STLP_ITERATOR
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x38
#include <stl/_prolog.h>
#define _STLP_ITERATOR
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x38)
#ifndef _STLP_INTERNAL_ITERATOR_H
#include <stl/_iterator.h>
#endif
#endif
#endif

#ifndef _STLP_INTERNAL_STREAM_ITERATOR_H

#endif
# include <stl/_stream_iterator.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x38) || defined (_STLP_IMPORT_VENDOR_STD)
 # if defined (_STLP_HAS_INCLUDE_NEXT)
 # include_next <iterator>
 # else
 # include _STLP_NATIVE_HEADER(iterator)
 # endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x38)
 # include <stl/_epilog.h>
 # undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_ITERATOR */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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/* boost limits_test.cpp test your <limits> file for important
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/codecvt.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_messages_facets.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/_stdio_file.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/ostream.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/c_locale.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_ios.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/numpunct.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_streambuf_iterator.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/istream.cpp
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_tools.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_vector.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_list.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_string.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_operators.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function_base.h

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*/

#ifndef _STLP_CSTDIO
#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x15
# include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
# define _STLP_DONT_POP_HEADER_ID
# define _STLP_CSTDIO
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x15) && !defined (_STLP_DONT_POP_HEADER_ID)
# ifndef _STLP_INTERNAL_CSTDIO
# include <stl/_cstdio.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x15) || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <cstdio>
# else
# include _STLP_NATIVE_CPP_C_HEADER(cstdio)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x15)
# if !defined (_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# else
# undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
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#ifndef _STLP_DEQUE
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x22
# include <stl/_prolog.h>
# define _STLP_DEQUE
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
# ifndef _STLP_INTERNAL_DEQUE_H
#  include <stl/_deque.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x22) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <deque>
#  else
#    include _STLP_NATIVE_HEADER(deque)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x22)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_DEQUE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 */

#ifndef _STLP_ISTREAM
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1036
#include <stl/_prolog.h>
#define _STLP_ISTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1036) &&
!(defined (_STLP_NO IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#endif

#ifndef _STLP_INTERNAL_ISTREAM
#include <stl/_istream.h>
#endif

#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1036
#endif

#ifndef _STLP_HAS_INCLUDE_NEXT
#include <istream>
#endif

#ifndef _STLP_NATIVE_HEADER(istream)
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1036)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif

#if (_STLP_ISTREAM == 0)
// Local Variables:
// mode:C++
// End:

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/test_hash_map.cpp

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#ifndef _STLP_CSETJMP

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x111
#define _STLP_CSETJMP
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x111) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <csetjmp>
# else
#   include _STLP_NATIVE_CPP_C_HEADER(csetjmp)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x111 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CSETJMP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csetjmp
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 */

#ifdef _STLP_CWCTYPE

#ifdef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x121
# define _STLP_CWCTYPE
# include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
# ifndef _STLP_INTERNAL_CWCTYPE
#   include <stl/_cwctype.h>
#endif
#endif

#endif

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# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x121) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#  include_next <cwctype>
# else
#  include _STLP_NATIVE_CPP_C_HEADER(cwctype)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x121)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CWCTYPE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cwctype
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 random_number.cpp

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*/

#ifndef _STLP_CSTRING

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x117
#define _STLP_CSTRING
#include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x117)
#define _STLP_INTERNAL_CSTRING
#include <stl/_cstring.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x117) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cstring>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cstring)
#endif
#endif

#elif (_STLP_OUTERMOST_HEADER_ID == 0x117)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_CSTRING */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstring
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 *
 SUMMARY: TestClass simulates a class that uses resources. It is designed to
 cause exceptions when it is constructed or copied.

*/

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/TestClass.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_range_errors.c
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#ifndef _STLP_SET

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x55
#include <stl/_prolog.h>
define _STLP_SET
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x55)
#ifndef _STLP_INTERNAL_SET_H
#include <stl/_set.h>
#define _STLP_SET
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x55) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <set>
#else
#include _STLP_NATIVE_HEADER(set)
#endif
#endif
#endif
#endif
#endif

#else (_STLP_OUTERMOST_HEADER_ID == 0x55)
#endif
#endif
#endif
#endif
#endif

#else (_STLP_OUTERMOST_HEADER_ID == 0x55)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#ifdef /* _STLP_SET */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/set
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/file_reporter.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/test_main.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_mini.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_proxy.h
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*/

#ifndef _STLP_QUEUE

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x53
#include <stl/_prolog.h>
#define _STLP_QUEUE
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
#ifndef _STLP_INTERNAL_QUEUE_H
#include <stl/_queue.h>
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x53) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <queue>
#else
#include _STLP_NATIVE_HEADER(queue)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x53)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_QUEUE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 *
 * Modified CRP 7/10/00 for improved conformance / efficiency on insert_unique /
 * insert_equal with valid hint -- efficiency is improved all around, and it is
 * should now be standard conforming for complexity on insert point immediately
 * after hint (amortized constant time).
 *
 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stl/stl/_tree.c

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pointers/_set.h
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* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/pthread.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/mem.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/typeinfo.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/errno.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/stddef.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/limits.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/assert.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/new.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/time.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/csetjmp.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/cwchar.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/exception.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdlib.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/cmath.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstring.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/cwchar.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstring.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/fstream.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/mbstate_t.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdio.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdlib.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream.h
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* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/string.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/csetjmp.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/setjmp.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/ctime.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stl.h
* /opt/cola/permits/1111286494_1607870159.270/optport-5-2-1-tar-gz/STLport-5.2.1/stl.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/stlport/stl/_numeric.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/stlport/stl/_valarray.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/stlport/stl/_threads.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/stlport/stl/_deque.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/stlport/stl/_vector.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/stlport/stl/_tempbuf.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/stlport/stl/_slist_base.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar.gz/STLport-5.2.1/stlport/stl/_list.c
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* Authors: Mat Marcus and Jesse Jones
* The original version of this source code may be found at
*/

* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/type_traits.h

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// test_set.cpp

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 *
 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_limits.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_string_fwd.h
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*/

#ifndef _STLP_CISO646
#define _STLP_CISO646

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x107
# include <stl/_prolog.h>
#endif

#if !defined(_STLP_WCE_EVC3) && !defined (__BORLANDC__)
# if defined (_STLP_USE_NEW_C_HEADERS)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <ciso646>
# else
# include _STLP_NATIVE_CPP_C_HEADER(ciso646)
# endif
# else
# include <iso646.h>
# endif /* _STLP_USE_NEW_C_HEADERS */
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x107 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CISO646 */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 *
 */
#endif
#endif
#endif
#endif
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x103 )
# if !_defined (_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# else
# undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cassert
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 */

// This header exists solely for portability. Normally it just includes
// the native header <exception>.

#ifndef _STLP_EXCEPTION

#if !_defined (_STLP_OUTERMOST_HEADER_ID)
#define _STLP_OUTERMOST_HEADER_ID 0x423
#include <stl/_prolog.h>
#else
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_EXCEPTION
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x423) && !_defined (_STLP_DONT_POP_HEADER_ID)
# ifndef _STLP_INTERNAL_EXCEPTION
#  include <stl/exception.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x423) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
/* If we are here it means that we are in an include called
 * from the native lib which means that we can simply forward this
 * call to the native exception header:
 */
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <exception>
#  else
#    if defined (__DMC__) && (_STLP_OUTERMOST_HEADER_ID == 0x874)
// Workaround to DMC harcoded typeid.h inclusion.
#      include <../include/exception>
#    else
#      include _STLP_NATIVE_CPP_RUNTIME_HEADER(exception)
#    endif
#  endif
#endif
#endif /* _STLP_EXCEPTION */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*****************************************************************************
* README file for STLport 5.0
*
*****************************************************************************
This directory contains the STLport-5.0 release.

What's inside:

**README**  - this file
**INSTALL**  - installation instructions

```text
bin          - installation directory for STLport unit tests;  
              it may contain more subdirs, if you use  
              crosscompilation
build/lib    - build directory for STLport library (if you use  
              STLport iostreams and/or locale only)
build/test/unit - build directory for regression (unit) tests
build/test/eh   - build directory for exception handling tests
stlport       - main STLport include directory
src           - source for iostreams implementation and other parts  
              that aren't pure template code
lib           - installation directory for STLport library (if you  
              use STLport iostreams and/or locale only);  
              it may contain more subdirs, if you use  
              crosscompilation
test/unit     - unit (regression) tests
test/eh       - exception handling test using STLport iostreams
etc           - miscellaneous files (ChangeLog, TODO, scripts, etc.)
```

**GETTING STLPORT**

To download the latest version of STLport, please be sure to visit
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/test_bit_vector.cpp

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 *
 */

#ifndef _STLP_SLIST
#define _STLP_SLIST

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x58
#include <stl/_prolog.h>
#endif

#ifndef _STLP_PRAGMA_ONCE
#define _STLP_PRAGMA_ONCE
#endif

#ifndef _STLP_NO_EXTENSIONS
#ifdef _STLP_PRAGMA_ONCE
#pragma once
#endif
#endif

#error The slist class is an STLport extension.
#ifndef _STLP_INTERNAL_SLIST_H
#  include <stl/_slist.h>
#endif

#if defined (_STLP_IMPORT_VENDOR_STD)
  //This is not a Standard header, it might failed for most of
  //the compilers so we comment it for the moment. Should be uncommented
  //on a compiler basis.
  //#  include _STLP_NATIVE_HEADER(slist)
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x58)
  #  include <stl/_epilog.h>
  #  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_SLIST */
#endif /* _STLP_SLIST */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iostream_string.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_unordered_set.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_workaround.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_deque.h

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* 
* */

// This header defines classes basic_stringbuf, basic_istringstream,
// basic_ostringstream, and basic_stringstream. These classes
// represent streambufs and streams whose sources or destinations are
// C++ strings.

#ifndef _STLP_SSTREAM
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1059
#include <stl/_prolog.h>
#define _STLP_SSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1059) &&
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#endif
# ifndef _STLP_INTERNAL_SSTREAM
# include <stl/_sstream.h>
# endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1059) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <sstream>
#  else
#    include _STLP_NATIVE_HEADER(sstream)
#  endif
#else
# include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_SSTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/

#ifdef _STLP_ALGORITHM

#ifdef _STLP_OUTERMOST_HEADER_ID
#ifdef _STLP_INTERNAL_CSTDIO
// remove() conflicts, <cstdio> should always go first
#else
#endif
#endif

#ifdef _STLP_INTERNAL_ALGO_H
#endif
#endif

#ifdef (_STLP_OUTERMOST_HEADER_ID != 0x1) || defined (_STLP_IMPORT_VENDOR_STD)
#else
#endif
#endif

#endif /* _STLP_ALGORITHM */

// Local Variables:
// mode:C++
// End:

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/random_number.h

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-
  5.2.1/test/unit/cppunit/cppunit_timer.h
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*/

#ifndef _STLP_CSIGNAL
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x112
#define _STLP_CSIGNAL
#include <stl/_prolog.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x112)
#ifndef _STLP_INTERNAL_CSIGNAL
#include <stl/_csignal.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x112) || defined (_STLP_IMPORTED_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <csignal>
#else
#include _STLP_NATIVE_CPP_C_HEADER(csignal)
#endif
#endif
#endif

Open Source Used In Cisco Emergency Responder 14Su1 MFG 11215
#if (_STLP_OUTERMOST_HEADER_ID == 0x112 )
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CSIGNAL */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csignal
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test_rope.cpp

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/***********************************************************************************
test_push_back.h

Interface for the test_push_back class

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test_hash_set.cpp

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Quick start.

GNU Make (Linux, OpenBSD, FreeBSD, CygWin, etc.), with gcc:

    make -f gcc.mak depend
    make -f gcc.mak install

GNU Make (SunOS), with SunPro CC:

    make -f CC.mak depend
    make -f CC.mak install

Microsoft NMAKE (MS Windows), with VC6:

    nmake /fmsvc.mak install

Make system goals.
- all source files declared in one place (for all platforms and compilers); the same is for base library (application) name and version.
- derive object filenames from source filenames in make system
- source files may be situated in few catalogs
- avoid information duplication, if possible
- support cross-compilation

Make targets.

release-static

    build STLport as static library

dbg-static

    build STLport as static library (with debug information)

stldbg-static

    build STLport as static library (STLP_DEBUG mode, with debug information)

release-shared

    build STLport as dynamic (shared) library

dbg-shared

    STLport as dynamic (shared) library (with debug information)

stldbg-shared

    build STLport as dynamic (shared) library (STLP_DEBUG mode, with debug information)

all (default)

    cumulative target for release,dbg,stldbg -shared on Unix-like platforms and plus release,dbg,stldbg -static on Windows.

derepend

create dependency files (for performance reasons dependency not created during compilation process); this target absent for MS NMAKE (due to pure scripting opportunities)

install-release-shared
install-dbg-shared
install-stldbg-shared
install-release-static
install-dbg-static
install-stldbg-static

build and install appropriate libraries and related files, into
'STLPort/lib' and 'STLPort/bin' (.../lib, relative position of this file)

install
cumulative target for install-*-shared on Unix-like platforms and
install-*-* on Windows.
clean
remove all intermediate files

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLPort-5.2.1/build/lib/README
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*/

 ifndef _STLP_IOS

 ifndef _STLP_OUTERMOST_HEADER_ID
 # define _STLP_OUTERMOST_HEADER_ID 0x1032
 # include <stl/prolog.h>
 # define _STLP_IOS
 #endif

/**
 * SortClass.h
 *
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 *
 * SUMMARY: A class designed to test operations that compares objects. All
 * comparisons on SortClass may fail. Also records its own address for
 */

// Local Variables:
// mode:C++
// End:

# if (_STLP_OUTERMOST_HEADER_ID == 0x1032) &&
  !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#  include <stl/iostreams.h>

# ifndef _STLP_INTERNAL_IOS_H
#  include <stl/ios.h>
# endif
#endif

# if (_STLP_OUTERMOST_HEADER_ID != 0x1032) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <ios>
#  else
#    include _STLP_NATIVE_HEADER(ios)
#  endif
# endif

# if (_STLP_OUTERMOST_HEADER_ID == 0x1032)
#  include <stl/epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
# endif
#endif /* _STLP_IOS */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ios
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 *
* SUMMARY: A class designed to test operations that compares objects. All
* comparisons on SortClass may fail. Also records its own address for
the sake of testing the stability of sorting algorithms.

***********************************************************************************/

Found in path(s):
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 *
 */

ifndef _STLP_CTIME

ifndef _STLP_OUTERMOST_HEADER_ID
 # define _STLP_OUTERMOST_HEADER_ID 0x118
 # include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x118) && ! defined (_STLP_DONT_POP_HEADER_ID)
 # define _STLP_DONT_POP_HEADER_ID
 # define _STLP_CTIME
#else
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x118) && !defined (_STLP_DONT_POP_HEADER_ID)
 # ifndef _STLP_INTERNAL_CTIME
 # include <stl/_ctime.h>
 # endif
#else
#endif

#endif

#endif

#ifndef _STLPImportsVendor_std

#ifndef _STLPIMPORT_VENDOR_STD

#endif

#ifndef _STLPHAS_INCLUDE_NEXT

#endif

#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x118)
# if !defined (_STLP_DONT_POP_HEADER_ID)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
# else
# undef _STLP_DONT_POP_HEADER_ID
# endif
#endif

#error /* _STLP_CTIME */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ctime
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 *
 */

#ifndef _STLP_IOSFWD
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1034
#include <stl/_prolog.h>
#define _STLP_IOSFWD
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x1034) &&
!(defined (_STLP_NO_IOSSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#endif
#endif

#ifndef _STLP_IOSFWD
#define _STLP_IOSFWD
#endif
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1034
#include <stl/_prolog.h>
#endif
#include <stl/_ioserr.h>
#ifndef _STLP_INTERNAL_IOSFWD
# include <stl/_iosfwd.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1034) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <iosfwd>
#else
# include _STLP_NATIVE_HEADER(iosfwd)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1034)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_IOSFWD */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iosfwd
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test_list.cpp

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 */

#ifndef _STLP_CFLOAT
#define _STLP_CFLOAT

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x106
#include <stl/_prolog.h>
#endif

// Borland defines some implementation constants in std:: namespace,
// we do not want to import them.
#if defined (__STLP_USE_NEW_C_HEADERS) && !defined (__BORLANDC__)
#if defined (__STLP_HAS_INCLUDE_NEXT)
#include_next <cfloat>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cfloat)
#endif
#else
#include <float.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x106)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CFLOAT */

// Local Variables:
// mode:C++
// End:
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_PREFIX.h

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SUMMARY: Configuration #defines for STL EH test suite

SUMERIALIZED: Configuration #defines for STL EH test suite

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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/etc/ChangeLog-5.1

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 */

/* Default values based on C++ Standard 22.2.1.
 * Under Windows the localisation implementation take care of mapping its
 * mask values to those internal values. For other platforms without real
 * localization support we are free to use the most suitable values.*/

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/c_locale.h

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 *
 */
#ifndef _STLP_VALARRAY

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x76
#include <stl/_prolog.h>
#define _STLP_VALARRAY
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x76)
  ifndef _STLP_VALARRAY_H
    include <stl/_valarray.h>
  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x76) || defined (_STLP_IMPORT_VENDOR_STD)
  if defined (_STLP_HAS_INCLUDE_NEXT)
    include_next <valarray>
  else
    include _STLP_NATIVE_HEADER(valarray)
  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x76)
  include <stl/_epilog.h>
  undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_VALARRAY */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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SUMMARY: Declarations of all of the tests in the exception test suite.

**************************************************************************

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* *
*/

#endif _STLP_STDEXCEPT

#if !_defined (_STLP_OUTERMOST_HEADER_ID)
  # define _STLP_OUTERMOST_HEADER_ID 0x63
  # include <stl/prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x63) && !_defined (_STLP_DONT_POP_HEADER_ID)
  # define _STLP_DONT_POP_HEADER_ID
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x63) || defined (_STLP_IMPORT_VENDOR_STD)

#include <stl/exception.h>

#endif
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <stdexcept>
# else
#   include _STLP_NATIVE_HEADER(stdexcept)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x63)
# if !_defined (_STLP_DONT_POP_HEADER_ID)
#   include <stl/_epilog.h>
#   undef _STLP_OUTERMOST_HEADER_ID
# else
#   undef _STLP_DONT_POP_HEADER_ID
# endif
#endif /* _STLP_STDEXCEPT */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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/*
 */

#ifndef _STLP_STACK

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x60
#include <stl/_prolog.h>
define _STLP_STACK
#endif

#endif

#define _STLP_STACK

#ifndef _STLP_INTERNAL_STACK_H
#include <stl/_stack.h>
#endif
#endif

#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif /* _STLP_STACK */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/msl_string.h
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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/c_locale_win32/c_wlocale_win32.c
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*
*/
#ifndef _STLP_BITSET

// This implementation of bitset<> has a second template parameter,
// _WordT, which defaults to unsigned long. *YOU SHOULD NOT USE
// THIS FEATURE*. It is experimental, and it may be removed in
// future releases.

// A bitset of size N, using words of type _WordT, will have
// N % (sizeof(_WordT) * CHAR_BIT) unused bits. (They are the high-
// order bits in the highest word.) It is a class invariant
// of class bitset<> that those unused bits are always zero.

// Most of the actual code isn't contained in bitset<> itself, but in the
// base class _Base_bitset. The base class works with whole words, not with
// individual bits. This allows us to specialize _Base_bitset for the
// important special case where the bitset is only a single word.

// The C++ standard does not define the precise semantics of operator[].
// In this implementation the const version of operator[] is equivalent
// to test(), except that it does no range checking. The non-const version
// returns a reference to a bit, again without doing any range checking.

#endif /* _STLP_BITSET */
Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/bitset
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    *
    */

#ifndef _STLP_IOMANIP

#ifndef _STLP_OUTERMOST_HEADER_ID
    #define _STLP_OUTERMOST_HEADER_ID 0x1030
    #include <stl/_prolog.h>
    #define _STLP_IOMANIP
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1030) &&
    !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
    # include <stl/_ioserr.h>
#endif

#ifndef _STLP_INTERNAL_IOMANIP
    # include <stl/_iomanip.h>
#endif

#endif

#ifndef _STLP_INTERNAL_IOMANIP
    # include <stl/_iomanip.h>
#endif
# include _STLP_NATIVE_HEADER(iomanip)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1030)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_IOMANIP */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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 *
 */

#endif /* _STLP_OUTERMOST_HEADER_ID */

#endif /* _STLP_NEW_HEADER */

#endif /* _STLP_OUTERMOST_HEADER_ID */
# define _STLP_OUTERMOST_HEADER_ID 0x447
# define _STLP_NEW_HEADER
# include <stl/_prolog.h>
#endif

#endif /* _STLP_IOMANIP */

// Local Variables:
// mode:C++
// End:
#if (_STLP_OUTERMOST_HEADER_ID != 0x447) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <new>
#  else
#    include _STLP_NATIVE_CPP_RUNTIME_HEADER(new)
#  endif
#endif
#endif /* _STLP_NEW */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/new
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 */

// This header defines classes basic_filebuf, basic_ifstream,
// basic_ofstream, and basic_fstream. These classes represent
// streambufs and streams whose sources or destinations are files.
#endif /* _STLP_FSTREAM */
#ifndef _STLP_OUTERMOST_HEADER_ID
#  define _STLP_OUTERMOST_HEADER_ID 0x1025
#  include <stl/_prolog.h>
#  define _STLP_FSTREAM
#  if defined (__DMC__) && defined (_DLL)
#    define _STLP_CLASS_IMPORT_DECLSPEC __declspec(dllimport)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1025) &&
  !(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#  include <stl/_ioserr.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x1025) || defined (_STLP_IMPORT_VENDOR_STD)
#  if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <fstream>
#  else
#    include _STLP_NATIVE_HEADER(fstream)
#  endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1025)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#  if defined (__DMC__) && defined (_DLL)
#    undef _STLP_CLASS_IMPORT_DECLSPEC
#  define _STLP_CLASS_IMPORT_DECLSPEC
#  endif
#endif

#endif /* _STLP_FSTREAM */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/

#ifndef _STLP_PTHREAD_ALLOC
#define _STLP_PTHREAD_ALLOC

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x52
#endif

#ifdef _STLP_PRAGMA_ONCE
#pragma once
#endif

#include <stl/_prolog.h>
#endif /* _STLP_PTHREAD_ALLOC */

// Local Variables:
// mode:C++
// End:
Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pthread_alloc
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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_cray.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_system.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/stl_mycomp.h
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/*------------------------------------*/

TestController.h

SUMMARY: An "faux-singleton" object to encapsulate a hodgepodge of state and functionality relating to the test suite. Probably should be broken into smaller pieces.

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/nc_alloc.h

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Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/top.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/CC.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/clean.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/rules-install.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/freebsd/sys.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/clean.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/extern.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/CC.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/darwin/targetsys.mak
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-
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*/

// version.

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stl/_stream_iterator.h

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* */

#ifndef _STLP_CERRNO
#define _STLP_CERRNO

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x105
# include <stl/_prolog.h>
#endif

#ifndef _STLP_WCE
# if defined (_STLP_USE_NEW_C_HEADERS)
# if defined (_STLP_HAS_INCLUDE_NEXT)
# include_next <cerrno>
# else
# include _STLP_NATIVE_CPP_C_HEADER(cerrno)
# endif
# else
# include <errno.h>
#endif

Open Source Used In Cisco Emergency Responder 14Su1 MFG 11242
/* errno is not a macro */
#if defined (_STLP_IMPORT_VENDOR_CSTD)
  #if !defined (__IBMCPP__) && !defined (__hpux) && !defined (__MWERKS__) && !defined (_STLP_WCE)
    _STLP_BEGIN_NAMESPACE
  using _STLP_VENDOR_CSTD::errno;
  _STLP_END_NAMESPACE
  #endif
#endif
#endif /* _STLP_CERRNO */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cerrno
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NC_ALLOC.CPP

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STLport README for Microsoft Visual C++ compilers.

by: Francois Dumont, dums@stlport.com, last edited 08/02/2005

Introduction

This document describes how STLport can be compiled and used with Microsoft Visual C++ 6 SP5. It can also be used for the MSVC++ family.

For any further comments or questions visit STLport mailing lists http://stlport.sourceforge.net/Maillists.shtml or forums https://sourceforge.net/forum/?group_id=146814

Prerequisites

To build and use STLport you will need following tools and libraries:
- Microsoft Visual C++ 6.0 with at least Service Pack 5 or any higher version.

Configuring STLport

In a console window go to the STLport build/lib folder. Run

```
configure --help
```

This command will present you the different available build options. Just follow the instructions to set STLport configuration according to your needs. The only mandatory configuration is to declare what is the compiler you are going to use, for MSVC 6 it is:

```
configure -c msvc6
```

Building STLport

This is a step-by-step description of the actions to take in order to have the STLport library built:

1. Open a console window. You can get it executing cmd or command depending on your Windows OS.
2. Go to MSVC++ Bin directory with a default MSVC6 install it is
cd "C:\Program Files\Microsoft Visual Studio\VC98\Bin"

3. Run the vcvars32.bat script. This sets the environment variables required
to have the MSVC++ compiler run during the build process. The most important
one is the PATH variable so that you can call the cl.exe command which is the
MSVC++ command line compiler. [You may omit this step, if you chose 'Install paths
to access command-line tools' during Microsoft Visual Studio installation procedure.]

4. Go to the STLport build/lib folder:
   cd C:\STLport\build\lib

5. Run the following command:
   nmake /fmsvc.mak install

   nmake is the make utility from Microsoft. /f is an nmake option
telling it which make file script to use. You have of course to grant the
closer make file to your effective compiler, msvc.mak in our case.

   Once the command returns, you will have all the necessary libraries within
   the STLport lib folder. For a description of the generated libraries check the README
   file within the src folder.

===============
Testing STLport
===============

You can use the unit tests to verify STLport behaves correctly. Change into
STLport's 'build/test/unit' folder and type:

   nmake /fmsvc.mak install

   Once the unit test is built you just need to run it. They can be found
   within the STLport bin folder.

==============
Using STLport
==============

Adjust your include and link paths in MSVC IDE (in 'Tools -> Options -> Directories'
for MSVC6 IDE). In the include files add the path to STLport's 'stlport' folder.
Make sure it is the first directory listed there. Add STLport's 'lib' folder for
the library files (order of paths doesn't matter here).

There are some preprocessor defines that control usage of the STLport in msvc
projects:

If you don't want to use the iostreams part of the library, you can specify the
define _STLP_NO_IOSTREAMS. In this mode there is no need to link against the
library.
STLport uses automatic linking to find the proper .lib file. If you want to see what import library STLport is going to use, define _STLP_VERBOS_AUTO_LINK. When not using automatic linking (by specifying _STLP_DONT_USE_AUTO_LINK), you have to specify the proper .lib file in the Project Settings, on the "link" tab. The .lib names have the following syntax:

```
stlport[d|std][_x,_,_static,_,statix],<STLport-Version>.lib
```

d : debug build
std: debug build with _STLP_DEBUG (STL safe) mode
_x: Build of STLport as a dll but statically link to the native runtime.
_static : build of a static library
_statix : build of a static library link dynamically to the native runtime.

Examples:

```
stlport_static.5.0.lib - static release version, Version 5.0.0
stlportd.5.0.lib - dll debug version, Version 5.0.0
```

When using STLport together with MFC, be sure to include the MFC headers first, then include STLport headers, e.g. in your Stdafx.h. This way STLport correctly recognizes MFC usage. You also can define the macro _STLP_USE_MFC, either in your project settings or in stlport/stl/config/user_config.h.

In order to enhance debugging with STLport you can optionally add the content of the etc/autoexp.dat file in the autoexp.dat file coming with your Visual Studio install.

Now you should be ready to use STLport.

==========
Known issues
==========

1. InterlockedIncrement

If you experiment trouble with the InterlockedIncrement Win32 API function like the following message:

```c
C:\Program Files\Microsoft SDK\Include\\winbase.h(1392) : error C2733: second C linkage of overloaded function 'InterlockedIncrement' not allowed
C:\Program Files\Microsoft SDK\Include\\winbase.h(1390) : see declaration of 'InterlockedIncrement'
```

It means that you are using the new Microsoft platform SDK. There is no way to known it from STLport code so you have to signal it in the stlport/stl/config/user_config.h file (uncomment _STLP_NEW_PLATFORM_SDK in this file).
2. Native C/C++ library headers location

If you experiment trouble with location of ctime and other Standard headers while building or using STLport you might be using the compiler coming with a platform SDK. If so please uncomment _STLP_USING_PLATFORM_SDK_COMPILER in stlport/stl/config/user_config.h. If it still do not find native headers you will perhaps need to change native headers relative path used by STLport. In this case use _STLP_NATIVE_INCLUDE_PATH and associated macro in stlport/stl/config/host.h.

4. C symbols in std namespace

The compiler of MSVC++ 6 has a bug when dealing with symbols existant in both the global namespace and symbols imported by a using-directive or a using-declaration - it will report an ambiguous call to an overloaded function (error C2668). Example:

```cpp
void function();
namespace ns {
    void function();
    // or:
    // using ::function;
}
using ns::function;
// or:
// using namespace ns;

void call() {
    function();
}
```

Since we anticipate that using-declarations or even using-directives are common use, STLport by default doesn't import or wrap functions that exist in both the global namespace and namespace std, in particular those are functions with C origin like fopen() or abs(). Also, it defines additional overloads for functions like abs() (overloaded for int, long, float, double, long double) in the global namespace.

In order to make STLport include them in the std namespace, you can define the _STLP_DO_IMPORT_CSTD_FUNCTIONS macro. Doing so, you will have to explicity scope all your functions calls like std::abs() though - otherwise you only get the global abs(int) from the C library.

Found in path(s):
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 */

#ifndef _STLP_LIMITS
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x39
#include <stl/_prolog.h>
#define _STLP_LIMITS
#endif
#elif (_STLP_OUTERMOST_HEADER_ID == 0x39)
#ifndef _STLP_INTERNAL_LIMITS
#include <stl/_limits.h>
#endif
#endif
#else
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <limits>
#else
#include _STLP_NATIVE_HEADER(limits)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x39)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_LIMITS */

// Local Variables:
// mode:C++
// End:

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 */

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_abbrevs.h
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***************************************************************************
test_vector.cpp
***************************************************************************

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***************************************************************************
SUMMARY: Test functor template for assignment operators.

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* */

// WARNING: The classes defined in this header are DEPRECATED. This
// header is defined in section D.7.1 of the C++ standard, and it
// MAY BE REMOVED in a future standard revision. You should use the
// header <sstream> instead.

 ifndef _STLP_STRSTREAM
#ifndef _STLP_OUTERMOST_HEADER_ID
 # define _STLP_OUTERMOST_HEADER_ID 0x1070

---
# include <stl/_prolog.h>
# define _STLP_STRSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1070) && !
!(defined (_STLP_NO_IOSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
# include <stl/_ioserr.h>

# ifndef _STLP_INTERNAL_STRSTREAM
# include <stl/_strstream.h>
# endif
#endif

#else /* _STLP_STRSTREAM */

// Local Variables:
// mode:C++
// End:

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#ifndef _STLP_CLOCALE

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x109
# define _STLP_CLOCALE
# include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x109)
# ifndef _STLP_INTERNAL_CLOCALE
#   include <stl/_locale.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x109) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <locale>
# else
#   include _STLP_NATIVE_CPP_C_HEADER(locale)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x109)
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CLOCALE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/locale
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  5.2.1/stlport/stl/_function_adaptors.h
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stlport/stl/type_manips.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2-1-tar-gz/STLport-5.2.1/stlport/stl/_move_construct_fwk.h
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*/

#ifndef _STLP_UTILITY

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x75
#include <stl/_prolog.h>
#elif (_STLP_OUTERMOST_HEADER_ID == 0x75) && !defined (_STLP_DONT_POP_HEADER_ID)
define _STLP_DONT_POP_HEADER_ID
#define _STLP_UTILITY
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x75) && !defined (_STLP_DONT_POP_HEADER_ID)
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x75) || defined (_STLP_DONT_POP_HEADER_ID) || defined
(_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <utility>
#else
#include _STLP_NATIVE_HEADER(utility)
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x75)
#if !defined (_STLP_DONT_POP_HEADER_ID)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#else
#undef _STLP_DONT_POP_HEADER_ID
#endif
#endif

*/ _STLP_UTILITY */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/utility
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* test_deque.cpp
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*/

#ifndef _STLP_COMPLEX

#ifndef _STLP_OUTERMOST_HEADER_ID
# define _STLP_OUTERMOST_HEADER_ID 0x10
# define _STLP_COMPLEX
# include <stl/prolog.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x10)
// This header declares the template class complex, as described in
// in the C++ Standard. Single-precision complex numbers
// are complex<float>, double-precision are complex<double>, and
// quad precision are complex<long double>.

// Note that the template class complex is declared within namespace
// std, as called for by the draft C++ standard
# ifndef _STLP_INTERNAL_COMPLEX
# include <stl/_complex.h>
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x10) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#    include_next <complex>
#  else
#    include _STLP_NATIVE_HEADER(complex)
#  endif
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x10 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_COMPLEX */

// Local Variables:
// mode:C++
// End:

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 */
/*

* #ifndef _STLP_CSTDARG

#endif /* _STLP_CSTDARG */

// Local Variables:
// mode:C++
// End:

Found in path(s):
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*/
#endif

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x1050
#include <stl/_prolog.h>
define _STLP_OSTREAM
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x1050) && (defined (_STLP_NO_OSTREAMS) && defined (_STLP_IMPORT_VENDOR_STD))
#include <stl/_ioserr.h>
#endif

#ifndef _STLP_INTERNAL_OSTREAM
#include <stl/_ostream.h>
#endif
#endif

#ifndef _STLP_OSTREAM */

// Local Variables:
// mode:C++
// End:

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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-targz/STLport-5.2.1/stlport/stl/rope.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-targz/STLport-5.2.1/stlport/stldebug/slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-targz/STLport-5.2.1/stlport/stl/slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-targz/STLport-5.2.1/stlport/stl/slist_base.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-targz/STLport-5.2.1/src/allocators.cpp
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-targz/STLport-5.2.1/stlport/stl/alloc.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-targz/STLport-5.2.1/stlport/stl/alloc.c

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 */
#ifndef _STLP_CMATH

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x110
#include <stl/_prolog.h>
#else (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
#define _STLP_DONT_POP_HEADER_ID
#define _STLP_CMATH
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x110) && !defined (_STLP_DONT_POP_HEADER_ID)
#ifndef _STLP_INTERNAL_CMATH
#include <stl/_cmath.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x110) || defined (_STLP_DONT_POP_HEADER_ID) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <cmath>
#else
#include _STLP_NATIVE_CPP_C_HEADER(cmath)
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x110)
#if !defined (_STLP_DONT_POP_HEADER_ID)
#include <stl/_epilog.h>
#undef _STLP_OUTERMOST_HEADER_ID
#else
#undef _STLP_DONT_POP_HEADER_ID
#endif
#endif
#endif /* _STLP_CMATH */

// Local Variables:
// mode:C++
// End:

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  * /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/unordered_set
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* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stl/_construct.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stl/_tree.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stl/_algo.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stl/_set.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stl/debug/_tree.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stl/debug/_algobase.c
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5.2.1-tar-gz/STLport-5.2.1/stl/debug/_list.h
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  */

#ifndef _STLP_CCTYPE
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x104
#define _STLP_CCTYPE
#include <stl/_prolog.h>
#endif
#if (_STLP_OUTERMOST_HEADER_ID == 0x104 )
#ifndef _STLP_INTERNAL_CCTYPE
#include <stl/_cctype.h>
#endif
#endif
#endif

#include <stl/_prolog.h>
#endif
#ifdef _STLP_CCTYPE
#ifdef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x104
#define _STLP_CCTYPE
#include <stl/_prolog.h>
#endif
#endif

#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x104 )
#endif
#include <stl/_cctype.h>

# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x104) || defined (_STLP_IMPORT_VENDOR_STD)
# if defined (_STLP_HAS_INCLUDE_NEXT)
#   include_next <cctype>
# else
#   include _STLP_NATIVE_CPP_C_HEADER(cctype)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x104 )
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_CCTYPE */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cctype
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 * *
 */

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/src/lock_free_slist.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_threads.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string.h
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 */

#ifndef _STLP_LIST
#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x40
#include <stl/_prolog.h>
define _STLP_LIST
#endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x40)
#ifndef _STLP_INTERNAL_LIST_H
#include <stl/_list.h>
#endif
#endif
#if (_STLP_OUTERMOST_HEADER_ID != 0x40) || defined (_STLP_IMPORT_VENDOR_STD)
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <list>
#endif
#endif
# else
#  include _STLP_NATIVE_HEADER(list)
# endif
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x40)
#  include <stl/_epilog.h>
#  undef _STLP_OUTERMOST_HEADER_ID
#endif

#endif /* _STLP_LIST */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/list
No license file was found, but licenses were detected in source scan.

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 * 
 */

#include <stl/_typeinfo.h>
/*
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    *
    */

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 * Permission to modify the code and to distribute modified code is granted,
 * provided the above notices are retained, and a notice that the code was
 * modified is included with the above copyright notice.
 *
 */

#ifndef _STLP_CSTDLIB

#ifndef _STLP_OUTERMOST_HEADER_ID
    #define _STLP_OUTERMOST_HEADER_ID 0x116
    #define _STLP_CSTDLIB
    #include <stl/_prolog.h>
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x116)
#endif

#if (_STLP_OUTERMOST_HEADER_ID != 0x116) || defined (_STLP_IMPORT_VENDOR_STD)
    #if defined (_STLP_HAS_INCLUDE_NEXT)
        #include_next <cstdlib>
    #else
        #include _STLP_NATIVE_CPP_C_HEADER(cstdlib)
    #endif
#endif

#endif
# include <stl/_epilog.h>
# undef _STLP_OUTERMOST_HEADER_ID
#endif
#endif /* _STLP_CSTDLIB */

// Local Variables:
// mode:C++
// End:

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdlib
No license file was found, but licenses were detected in source scan.

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 * purpose. It is provided "as is" without express or implied warranty.
 */

Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/_traits_fns.h
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/concept_checks.h
No license file was found, but licenses were detected in source scan.

/******************************
 test_bitset.cpp

/*
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 * representations about the suitability of this software for any
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/******************************/
Found in path(s):
* /opt/cola/permits/1111286494_1607870159.27/0/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_bitset.cpp
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 1994
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 * provided the above notices are retained, and a notice that the code was
 * modified is included with the above copyright notice.
 *
 */

#ifndef _STLP_MAP

#ifndef _STLP_OUTERMOST_HEADER_ID
#define _STLP_OUTERMOST_HEADER_ID 0x43
#include <stl/_prolog.h>
define _STLP_MAP
#endif

#if (_STLP_OUTERMOST_HEADER_ID == 0x43)
#ifndef _STLP_INTERNAL_MAP_H
#include <stl/_map.h>
#endif
#endif

#endif

#ifndef _STLP_IMPORT_VENDOR_STD

#define _STLP_HAS_INCLUDE_NEXT
#if defined (_STLP_HAS_INCLUDE_NEXT)
#include_next <map>
#else
#include _STLP_NATIVE_HEADER(map)
#endif
#endif
1.1008 opensaml-xmlsec-api 3.4.5

1.1008.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1020462289_1606456152.54/0/opensaml-xmlsec-api-3-4-5-jar/schema/xenc11-schema.xsd
No license file was found, but licenses were detected in source scan.

Schema for XML Signatures
http://www.w3.org/2000/09/xmldsig#
$Revision: 1.2 $ on $Date: 2005/06/03 03:09:54 $ by $Author: cantor$

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Found in path(s):
* /opt/cola/permits/1020462289_1606456152.54/0/opensaml-xmlsec-api-3-4-5-jar/schema/xmldsig-core-schema.xsd

1.1009 tftp-hpa 5.2
1.1009.1 Available under license :

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 */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftp/main.c

No license file was found, but licenses were detected in source scan.

/* -*- c -*- ------------------------------------------------------------- *

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* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/
*
* └----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/config.h

No license file was found, but licenses were detected in source scan.

/* └----------------------------------------------------------------------- */

* Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/
*
* └----------------------------------------------------------------------- */

Found in path(s):
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1108298343_1611281305.28/0/tftp-hpa-5-2-tar-bz2/tftp-hpa-5.2/tftpd/remap.c

No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}
make INSTALLROOT=${RPM_BUILD_ROOT} \
SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${{RPM_BUILD_ROOT}}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}
%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild
* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-J" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-J" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
  is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May  5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb  9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan  4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.
Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root
%description
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp package provides the user interface for TFTP, which allows users to transfer files to and from a remote machine. This program and TFTP provide very little security, and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for booting diskless workstations. The tftp-server package provides the server for TFTP, which allows users to transfer files to and from a remote machine. TFTP provides very little security, and should not be enabled unless it is expressly needed. The TFTP server is run from /etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf %{_buildroot}
mkdir -p %{_bindir}
mkdir -p %{_sysconfdir}/xinetd.d/ tftpboot
mkdir -p %{_mandir}/man{1,8}
mkdir -p %{_sbindir}
make INSTALLROOT=%{_buildroot} SBINDIR=%{_sbindir} MANDIR=%{_mandir} install
install -m755 -d %{_sysconfdir}/xinetd.d/ tftpboot
install -m644 tftp-xinetd %{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
  /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf %{_buildroot}

%files
%defattr(-,root,root) %{_bindir}/tftp
%{mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
  - removed completely broken "Malta" patch.
  - integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
  - 0.33
  - Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
  - add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
  - Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
  - Fix #55789
  - Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
  - Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
  - Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild
* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
  - Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
  - Update to tftp-hpa-0.28 (bug #56131)
  - Remove include/arpa/tftp.h to fix #57259
  - Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
  - Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
  - updated tftp-hpa source to tftp-hpa-0.17
  - tweaked specfile with different defines for tftp-netkit and tftp-hpa version
  - use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
  - rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
  - fix tftp client's put problems (#29529)
  - update to tftp-hpa-0.16

* Wed Apr  4 2001 Jakub Jelinek <jakub@redhat.com>
  - don't let configure to guess compiler, it can pick up eges

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
  - fixed hpa-tftpd to handle files greater than 32MB (#23725)
  - added "-l" flag to hpa-tftpd for file-logging (#26467)
  - added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
  - updated tftp client to 0.17 stable (#19640),
  - drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
  - xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan  6 2001 Jeff Johnson <jbj@redhat.com>
  - fix to permit tftp put's (#18128).
  - startup as root with chroot to /tftpboot with early reversion to nobody
    is preferable to starting as nobody w/o ability to chroot.
  - %post is needed by server, not client. Add %postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
  - default to being disabled
* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
  - correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
  - change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
  - update to tftp-hpa-0.14 (#14003).
  - add server_args (#14003).
  - remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
  - cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
  - FHS packaging.
  - update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
  - use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
  - fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
  - compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
  - man pages are compressed
  - fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
  - split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
  - update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
  - tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug  7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Version 2, June 1991
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 *    combined, allow nicstar_free_rx_skb to be called to
 *    recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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M. Welsh, 6 July 1996

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1.1028 cxf-rt-rs-security-sso-oidc 3.4.0

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* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/description/package-info.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/implementation/bytecode/assign/reference/ReferenceTypeAwareAssigner.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/dynamic/DynamicType.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/dynamic/TypeResolutionStrategy.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/dynamic/loading/PackageDefinitionStrategy.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/implementation/bind/annotation/TargetMethodAnnotationDrivenBinder.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/implementation/bind/annotation/Default.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/asm/MemberSubstitution.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/matcher/MethodParametersMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/matcher/DefinedShapeMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/matcher/ModifierMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/build/BuildLogger.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/implementation/bytecode/Multiplication.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveWideningDelegate.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/dynamic/loading/ClassInjector.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/build/EntryPoint.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/implementation/bind/annotation/FieldProxy.java
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jar/net/bytebuddy/implementation/bytecode/assign/package-info.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/implementation/bytecode/StackManipulation.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/implementation/bytecode/assign/primitive/VoidAwareAssigner.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/dynamic/scaffold/inline/package-info.java
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jar/net/bytebuddy/utility/privilege/SetAccessibleAction.java
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jar/net/bytebuddy/build/ToStringPlugin.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
jar/net/bytebuddy/matcher/SignatureTokenMatcher.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-
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* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/bytecode/member/MethodInvocation.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/implementation/bytecode/constant/DefaultValue.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/dynamic/Nexus.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/asm/MemberRemoval.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/agent/builder/AgentBuilder.java
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* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/MethodTooLargeException.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/AnnotationVisitor.java
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* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/Label.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/AnnotationWriter.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/Opcodes.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/MethodVisitor.java
* /opt/cola/permits/1124246758_1611026955.31/0/byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/Symbol.java
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* /opt/cola/permits/1124246758_1611026955.31/0(byte-buddy-1-9-6-sources-jar/net/bytebuddy/jar/asm/signature/package.html

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Manifest-Version: 1.0
Bundle-Description: Byte Buddy is a Java library for creating Java classes at run time. This artifact is a build of Byte Buddy with all ASM dependencies repackaged into its own name space.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: net.bytebuddy.byte-buddy
Built-By: rafael
Bnd-LastModified: 1544735061016
Bundle-ManifestVersion: 2
Tool: Bnd-3.5.0.201709291849
Main-Class: net.bytebuddy.build.Plugin$Engine$Default
Export-Package: net.bytebuddy;version="1.9.6",net.bytebuddy.agent.builder;version="1.9.6",net.bytebuddy.asm;version="1.9.6",net.bytebuddy.build;version="1.9.6",net.bytebuddy.description;version="1.9.6",net.bytebuddy.description.annotation;version="1.9.6",net.bytebuddy.description.enumeration;version="1.9.6",net.bytebuddy.description.field;versi
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1.1030 hk2-api 2.3.0-b10

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 */
1.1032 curl 7.29.0-54.el7

1.1032.1 Available under license :

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I am not a lawyer and this is not legal advice!

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libcurl http://curl.haxx.se/docs/copyright.html

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GnuTLS http://www.gnutls.org/
yassl  http://www.yassl.com/

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NSS   http://www.mozilla.org/projects/security/pki/nss/

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axTLS  http://axtls.sourceforge.net/

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib  http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos  http://web.mit.edu/kerberos/www/dist/

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fbopenssl

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libidn http://josefsson.org/libidn/

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OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
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* https://github.com/eclipse-ee4j/jaxb-dtd-parser
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  * Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
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* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

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maven-settings (3.5.2)

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* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

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* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

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* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

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* Project: https://maven.apache.org/wagon/
* Source: https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

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1.1035 yum 3.4.3-163.el7
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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
   except Errors.RepoMDError:
     continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
      """ Return all notices. """
      if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
          other_arch_list = []
          notices = set()
          for notice in self.get_notices(name):
            for upkg in notice['pkglist']:
              for pkg in upkg['packages']:
+                other_arch = False
                if pkg['name'] != name or pkg['arch'] != arch:
                  -              continue
+                if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                  other_arch = True
+                else:
+                  continue
+                  pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                    pkg['version'], pkg['release'])
                  if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                    continue
-                  ret.append((pkgtup, notice))
+                if other_arch:
+                  other_arch_list.append((pkgtup, notice))
+                else:
+                  ret.append((pkgtup, notice))
+                  notices.add(notice)
+              for pkgtup, notice in other_arch_list:
+                if notice not in notices:
+                  ret.append((pkgtup, notice))
+      ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels
+from rpmUtils.arch import ArchStorage

import rpmUtils.miscutils

def safe_iterparse(filename, logger=None):
    return ret
    diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
     A single update notice (for instance, a security fix).
     
     - def __init__(self, elem=None):
+r+    def __init__(self, elem=None, repoid=None, vlogger=None):
+        self._md = {
+            'from' : '',
+            'type' : '',
+        }
@@ -83,6 +83,9 @@ class UpdateNotice(object):
         self._parse(elem)
     + self._repoid = repoid
     + self._vlogger = vlogger
     +
     def __getitem__(self, item):
         """ Allows scriptable metadata access (ie: un['update_id']). """
         if type(item) is int:
+r+     @ @ -103,6 +106,24 @@ class UpdateNotice(object):
+r+        def _rid(un):
+r+            if hasattr(un, '_repoid') and un._repoid is not None:
+r+                return un._repoid
+r+            else:
+r+                return '<unknown>'
+r+        def _log_failure(data):
+r+            """Log the mismatched data similarly to conflict markers in git."""
+r+            if self._vlogger is None:
if not other or not hasattr(other, '_md'):
    return False

    _log_failure(data)
    return False

    # They are both really "stable" ...
    self._md[data] = 'stable'

    msg = _("An update notice%r is broken, skipping.") % _rid(repoid)
    if self._vlogger:
        if not have_dup:
            msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%s ")
            msg += _("If you are the owner, consider re-running the same command with --verbose to see the 
            'exact data that caused the conflict.'")
            have_dup = True

@@ -113,6 +134,7 @@ class UpdateNotice(object):
    if data == 'status': # FIXME: See below...
        if self._md[data] != other._md[data]:
            _log_failure(data)
        return False
    # FIXME: Massive hack, Fedora is really broken and gives status=stable # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
        if self._md[data] != other._md[data]:
            if self._md[data] not in ('stable', 'testing'):
                _log_failure(data)
            return False
            if other._md[data] not in ('stable', 'testing'):
                _log_failure(data)
            return False
            # They are both really "stable" ...
            self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
            msg = _("An update notice%r is broken, skipping.") % _rid(repoid)
            if self._vlogger:
                if not have_dup:
                    msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%s ")
                    msg += _("If you are the owner, consider re-running the same command with --verbose to see the 
                    'exact data that caused the conflict.'")
                    have_dup = True

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if self._vlogger:
    self._vlogger.warn("%s", msg)

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distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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with the Library, with the complete machine-readable "work that
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
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jar/jersey/repackaged/com/google/common/io/GwtWorkarounds.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-

jar/jersey/repackaged/com/google/common/collection/ImmutableRangeSet.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/collection/CartesianList.java

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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/FutureFallback.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicLongMap.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/base/Absent.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingCheckedFuture.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/cache/RemovalListeners.java
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jar/jersey/repackaged/com/google/common/collection/Cut.java
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  jar/jersey/repackaged/com/google/common/collection/EnumMultiset.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/base/Strings.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/annotations/package-info.java
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jar/jersey/repackaged/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/collection/DiscreteDomains.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/ImmutableBiMap.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/collect/RegularImmutableMap.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/AbstractBiMap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/Lists.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/AbstractMapBasedMultimap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/io/LimitInputStream.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/AbstractSortedSetMultimap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/AbstractMapEntry.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/TreeMultiset.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/SetMultimap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/io/Closeables.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/io/CharStreams.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/ReverseOrdering.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/Interner.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/LinkedHashMultiset.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1.jar/jersey/repackaged/com/google/common/collection/ForwardingMultiset.java
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jar/jersey/repackaged/com/google/common/base/Supplier.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/eventbus/AnnotatedHandlerFinder.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/collect/MapConstraint.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
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jar/jersey/repackaged/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
jar/jersey/repackaged/com/google/common/collect/EnumHashBiMap.java
jar/jersey/repackaged/com/google/common/collect/NaturalOrdering.java
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/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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  jar/jersey/repackaged/com/google/common/collect/ComputingConcurrentHashMap.java
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/
* This file is a modified version of
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/AbstractExecutorService.java?revision=1.35
* which contained the following notice:
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* Rationale for copying:
* Guava targets JDK5, whose AbstractExecutorService class lacks the newTaskFor protected
* customization methods needed by MoreExecutors.listeningDecorator. This class is a copy of
* AbstractExecutorService from the JSR166 CVS repository. It contains the desired methods.
*/

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  jar/jersey/repackaged/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
  jar/jersey/repackaged/com/google/common/io/PatternFilenameFilter.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/TimeLimiter.java
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* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
  jar/jersey/repackaged/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
*/
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Found in path(s):
* /opt/cola/permits/1136687804_1613859262.95/0/jersey-guava-2-13-sources-1-jar/jersey/repackaged/com/google/common/base/SmallCharMatcher.java

1.1043 bcel 2.7.1

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* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spl/standard/SpelExpression.java
* /opt/cola/permits/1136687592_1613859237.38/0/spring-expression-4-3-14-release-sources-2-
  jar/org/springframework/expression/spl/ast/OpInc.java
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  jar/org/springframework/expression/spl/SpelParserConfiguration.java
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
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All Python releases are Open Source (see http://www.opensource.org for
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1.1066 axis2-adb 1.4

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==============================================================================
Kibaale Children's Centre	*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents die, there are
many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the
future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a
child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
  Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
    Rabobank Lisse, account 3765.05.117
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Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

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* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/ByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/WrappedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/WrappedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4-1-33-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4.1.33-final-sources-1.jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4.1-33-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073009130_1595250220.32/0/netty-buffer-4.1-33-final-sources-1-jar/io/netty/buffer/PoolSubpageMetric.java
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1.1081 e2fsprogs 1.42.9 16.el7

1.1081.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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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
-
- Copyright (C) Andrew Tridgell 2005
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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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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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On Debian GNU systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'. This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared library.
# In order to use this stub, the following makefile variables must be defined.

BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 
`echo $(my_dir) | sed -e \`s;lib/;;\`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package, the EXT2 filesystem utilities, are made available under the GNU Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license. Please see lib/uuid/COPYING for more details for the license for the files comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like
a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

---------------------------------------------------------------------

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* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-
  jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java
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  jar/org/springframework/web/bind/support/SessionStatus.java
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* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/server/reactive/TomcatHeadersAdapter.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/filter/FormContentFilter.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/util/HtmlCharacterEntityReferences.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/remoting/ caulcho/HessianExporter.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/util/pattern/CaptureTheRestPathElement.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/multipart/support/StandardServletMultipartResolver.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/server/handler/FilteringWebHandler.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/context/request/async/WebAsyncUtils.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/bind/annotation/ExceptionHandler.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/bind/annotation/ExceptionHandlerMethodResolver.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/context/request/async/WebAsyncTask.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/multipart/MultipartFileResource.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/context/request/async/WebAsyncUtils.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/bind/annotation/ExceptionHandler.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/bind/annotation/ExceptionHandlerMethodResolver.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/context/request/async/WebAsyncTask.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpComponentsHttpInvokerRequestExecutor.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/server/session/CookieWebSessionIdResolver.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/converter/ResourceRegionHttpMessageConverter.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/server/reactive/AbstractListenerServerHttpResponse.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/server/session/HeaderWebSessionIdResolver.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/util/CookieGenerator.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/client/reactive/ClientHttpRequestDecorator.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/server/reactive/JettyHttpHandlerAdapter.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/converter/protobuf/ExtensionRegistryInitializer.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/server/reactive/AbstractListenerServerHttpServletResponse.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/util/pattern/SeparatorPathElement.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/method/support/ModelAndViewContainer.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/InvalidMediaTypeException.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/client/reactive/ClientHttpRequest.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/accept/AbstractMappingContentNegotiationStrategy.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/cors/CorsProcessor.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/http/client/reactive/JettyClientHttpRequest.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/remoting/jaxws/SimpleJaxWsServiceExporter.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/bind/MissingPathVariableException.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/http/client/support/AsyncHttpAccessor.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/http/server/reactive/NettyHeadersAdapter.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/multipart/support/MultipartFilter.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/context/ContextLoader.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/http/codec/json/Jackson2JsonEncoder.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/http/client/ExtractingResponseErrorHandler.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/context/request/ServletWebRequest.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/server/UnsupportedMediaTypeStatusException.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/context/request/async/StandardServletAsyncWebRequest.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/context/request/async/AbstractAsyncWebRequest.java

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* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/util/NestedServletException.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/bind/annotation/RequestBody.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/bind/annotation/ErrorsMethodArgumentResolver.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/server/i18n/FixedLocaleContextResolver.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/http/client/SimpleStreamingClientHttpRequest.java

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* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/http/server/ServerHttpResponse.java

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* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/context/annotation/RequestScope.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/bind/annotation/ModelAttribute.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/context/request/RequestContextHolder.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/context/request/async/TimeoutDeferredResultProcessingInterceptor.java
* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/context/WebApplicationContext.java
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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
here to guide configurations toward known types and to make it easier to identify "new" types. File extensions are also commonly used to indicate content languages and encodings, so choose them carefully.

Internet media types should be registered as described in RFC 4288. The registry is at <https://www.iana.org/assignments/media-types/>.

This file was retrieved from https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co

MIME type (lowercased)Extensions
===========================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomatom
application/atomcat+xml
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml
# application/axml
# application/auth-policy+xml
# application/bacnet-xdd+xml
# application/batch-smtp
# application/beep+xml
# application/calendar+xml
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml
# application/cdfx+xml
application/cdmi-capability
application/cdmi-container
application/cdmi-domain
application/cdmi-object
application/cdmi-queue
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnrf+xml
# application/coap-group+json
# application/commonground
# application/conference-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
# application/csvm+json
application/cu-seeme
# application/cybercash
# application/dash+xml
# application/dashdelta
application/davmount+xml
application/davmount
# application/dca-rft
# application/dcd
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xml
# application/dskpp+xml
application/dssc+der
application/dssc+xml
# application/dvcs
application/ecmascript
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/mf4
# application/mikey
application/mods+xml
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21
application/mp4
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword
application/mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream
application/oda
# application/odx
application/oeoebp-package+xml
application/ogg
application/oebps-package+xml
application/omdoc+xml
application/onenote
application/oxps
# application/p2p-overlay+xml
# application/parityfec
application/pics-rules
application/pdf
# application/pdx
application/pgp-encrypted
# application/pgp-keys
application/pgp-signature
application/pics-rules
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10
# application/pkcs12
application/pkcs7-mime
application/p7m
p7c
# application/scaip+xml
# application/scim+json
application/scvp-cv-requestscq
application/scvp-cv-responseses
application/scvp-vp-requestspq
application/scvp-vp-responsespp
application/sdp
dpsdp
# application/session-info
# application/set-payment
application/set-payment-initiationsetpay
# application/set-registration
application/set-registration-initiationsetreg
# application/sgml
# application/sgml-open-catalog
application/shf+xmlshf
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xmlsmithl
# application/smte336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-queryrq
application/sparql-results+xmlsrx
# application/spirits-event+xml
# application/sql
application/srgsgram
application/srgs+xmlgrxml
application/sru+xmlsrur
application/ssdl+xmlssdl
application/ssml+xmlssml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xmlteicorpus
# application/vnd.nokia.iptv.config+xml
# application/vnd.nokia.isds-radio-presets
# application/vnd.nokia.landmark+wbxml
# application/vnd.nokia.landmark+xml
# application/vnd.nokia.landmarkcollection+xml
# application/vnd.nokia.n-gage.ac+xml
application/vnd.nokia.n-gage.datangdat
application/vnd.nokia.n-gage.symbian.installn-gage
# application/vnd.nokia.ncd
# application/vnd.nokia.pcd+wbxml
# application/vnd.nokia.pcd+xml
application/vnd.nokia.radio-presestrpst
application/vnd.nokia.radio-presetsrpss
application/vnd.novadigm.edmedm
application/vnd.novadigm.edxedx
application/vnd.novadigm.ext
# application/vnd.ntt-local.content-share
# application/vnd.ntt-local.file-transfer
# application/vnd.ntt-local.oggw_remote-access
# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
application/vnd.oasis.opendocument.chartodc
application/vnd.oasis.opendocument.chart-templateotc
application/vnd.oasis.opendocument.databaseodb
application/vnd.oasis.opendocument.formulaodf
application/vnd.oasis.opendocument.formula-templateodft
application/vnd.oasis.opendocument.graphicsodg
application/vnd.oasis.opendocument.graphics-templateotg
application/vnd.oasis.opendocument.imageodi
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application/vnd.oasis.opendocument.spreadsheet-templateots
application/vnd.oasis.opendocument.textodt
application/vnd.oasis.opendocument.text-masterodm
application/vnd.oasis.opendocument.text-templateott
application/vnd.oasis.opendocument.text-weboth
# application/vnd.obn
# application/vnd.oftn.l10n+json
# application/vnd.oipf.contentaccessdownload+xml
# application/vnd.oipf.contentaccessstreaming+xml
# application/vnd.oipf.cspg-hexbinary
# application/vnd.oipf.dae.svg+xml
# application/vnd.oipf.dae.xhtml+xml
# application/vnd.oipf.mippcontrolmessage+xml
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
application/x-msmoneymny
application/x-mspublisherpub
application/x-msschedulecd
application/x-msterminaltrm
application/x-mswritewri
application/x-netcdfnc cdf
application/x-nzb
application/x-pkcs12 pfx
application/x-pkcs7-certificatesp7b spc
application/x-pkcs7-certreqrespp7r
application/x-rar-compressedrar
application/x-research-infosystemssris
application/x-shsh
application/x-sharhar
application/x-shockwavemailflashswf
application/x-silverlight-appxap
application/x-sqlsql
application/x-stufffitsit
application/x-stuffitsxitsx
application/x-subrprst
application/x-sv4cpiosv4cpio
application/x-sv4crcsv4crg
application/x-t3vm-imaget3
application/x-tadsgam
application/x-tartar
application/x-tcltcl
application/x-textex
application/x-tex-tfmtfmt
application/x-texinfoformatexi
application/x-tgifobj
application/x-uistarustar
application/x-wais-sourcesrc
# application/x-www-form-urlencoded
application/x-x509-ca-certder crt
application/x-xfigfig
application/x-xliff+xmlxmlxlf
application/x-xpinstallxpi
application/x-xzx
application/x-xmachinez1 z2 z3 z4 z5 z6 z7 z8
# application/x-400-bp
# application/xacml+xml
application/xaml+xmlxaml
# application/xcap-att+xml
# application/xcap-caps+xml
application/xcap-diff+xmlxmlxdf
# application/xcap-el+xml
# application/xcap-error+xml
# application/xcap-ns+xml
# application/xcon-conference-info+xml
# application/xcon-conference-info-diff+xml
application/xenc+xml
tt	xenc
application/xhtml+xml		xhtml xht
# application/xhtml-voice+xml
application/xml					xml xsl
application/xml-dtd				dtd
# application/xml-external-parsed-entity
# application/xml-patch+xml
application/xmpp+xml
application/xop+xml
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application/xslt+xml			xslt
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  jar/org/springframework/http/mime.types

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* /opt/cola/permits/113588219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/server/reactive/DefaultServerHttpRequestBuilder.java
* /opt/cola/permits/113588219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/server/reactive/UndertowServerHttpResponse.java
* /opt/cola/permits/113588219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/converter/json/Jackson2ObjectMapperBuilder.java
* /opt/cola/permits/113588219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
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* /opt/cola/permits/113588219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/server/reactive/ServletServerHttpRequest.java
* /opt/cola/permits/113588219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/client/UnknownContentTypeException.java
* /opt/cola/permits/113588219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/http/MediaType.java
* /opt/cola/permits/113588219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/util/pattern/PathPatternParser.java
* /opt/cola/permits/113588219_1613626164.16/0/spring-web-5-2-8-release-sources-1-jar/org/springframework/web/util/ServletContextPropertyUtils.java
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* /opt/cola/permits/1135888219_1613626164.16/0/spring-web-5-2-8-release-sources-1.jar/org/springframework/web/context/support/ServletContextParameterFactoryBean.java
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1.1096 grep 2.20 3.el7
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Julian Seward, jsward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.1105 jakarta-jws-api 2.1.0
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1.1106 libpipeline 1.2.3 3.el7

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1.1114 realm 0.16.1 11.el7

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1.1115 jetty-http 9.4.31.v20200723

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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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org.eclipse.jetty.toolchain:jetty-schemas

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1.1119 geronimoj2eemanagement 1.0.1

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1.1126 sysv-init 2.86-1

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*  
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1127 libcgroup 0.41-21.el7

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1.1128 activation 1.2.2

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1.1131 slf4j 1.6.1

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1.1132 isorelax 20090621

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1.1133 jcl-over-slf4j 1.6.1

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1.1136 datatype 1.3.04
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Found in path(s):
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/AbstractResource.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/annotation/AnnotationAttributes.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/VfsResource.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/Resource.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/env/ConfigurableEnvironment.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/ClassPathResource.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/classreading/MethodMetadataReadingVisitor.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/support/PropertiesLoaderUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/TypeDescriptor.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/MapToMapConverter.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/OrderComparator.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/Constants.java
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/core/io/InputStreamSource.java
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 */

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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/util/comparator/NullSafeComparator.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-jar/org/springframework/util/comparator/InvertibleComparator.java
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/util/SerializationUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/ConversionException.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/serializer/support/SerializationFailedException.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/util/xml/AbstractStaxContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/util/WeakReferenceMonitor.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/ConverterNotFoundException.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventXMLReader.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
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* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/StaxEventContentHandler.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2-
  jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /opt/cola/permit
jar/org/springframework/util/StopWatch.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/util/TypeUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/serializer/Deserializer.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/ConversionFailedException.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/convert/ConversionFailedException.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/SimpleAliasRegistry.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/util/PathMatcher.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/util/LinkedMultiValueMap.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/xml/SimpleNamespaceContext.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/SystemPropertyUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/VfsPatternUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/VfsPatternUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /opt/cola/permits/1136046023_1613664919.42/0/spring-core-3-1-4-release-sources-2.jar/org/springframework/core/io/support/ResourcePatternUtils.java
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1.1149 xml-apis 2.0.2

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// NO WARRANTY! This class is in the Public Domain.
/**
 * Base class for deriving an XML filter.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class is designed to sit between an {@link org.xml.sax.XMLReader
 * XMLReader} and the client application's event handlers. By default, it
 * does nothing but pass requests up to the reader and events
 * on to the handlers unmodified, but subclasses can override
 * specific methods to modify the event stream or the configuration
 * requests as they pass through.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.XMLFilter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
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/**
 * Basic interface for SAX error handlers.
 * ...
 */

/**
 * If a SAX application needs to implement customized error handling, it must implement this interface and then register an instance with the XML reader using the method. The parser will then report all errors and warnings through this interface.
 *
 * <strong>WARNING:</strong> If an application does not register an ErrorHandler, XML parsing errors will go unreported and bizarre behaviour may result.
 *
 * For XML processing errors, a SAX driver must use this interface instead of throwing an exception: it is up to the application to decide whether to throw an exception for different types of errors and warnings. Note, however, that there is no requirement that the parser continue to provide useful information after a call to a class with the fatalError method (in other words, a SAX driver class could catch an exception and report a fatalError).
 *
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser#setErrorHandler
 * @see org.xml.sax.SAXParseException
 */

Found in path(s):

// NO WARRANTY! This class is in the public domain.
/**
 * Interface for a list of XML attributes.
 */

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This interface allows access to a list of attributes in three different ways:

- by attribute index;
- by Namespace-qualified name; or
- by qualified (prefixed) name.

The list will not contain attributes that were declared #IMPLIED but not specified in the start tag. It will also not contain attributes used as Namespace declarations (xmlns*) unless the <code>http://xml.org/sax/features/namespace-prefixes</code> feature is set to <var>true</var> (it is <var>false</var>) by default.

If the namespace-prefixes feature (see above) is <var>false</var>, access by qualified name may not be available; if the <code>http://xml.org/sax/features/namespaces</code> feature is <var>false</var>, access by Namespace-qualified names may not be available.

This interface replaces the now-deprecated SAX1 AttributeList interface, which does not contain Namespace support. In addition to Namespace support, it adds the <var>getIndex</var> methods (below).

The order of attributes in the list is unspecified, and will vary from implementation to implementation.

@since SAX 2.0
@author David Megginson,
     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.helpers.AttributeListImpl

Default implementation for AttributeList.
* <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>

* AttributeList implements the deprecated SAX1 [@link org.xml.sax.AttributeList AttributeList] interface, and has been replaced by the new SAX2 [@link org.xml.sax.helpers.AttributesImpl AttributesImpl] interface.</p>

* This class provides a convenience implementation of the SAX [@link org.xml.sax.AttributeList AttributeList] interface. This implementation is useful both for SAX parser writers, who can use it to provide attributes to the application, and for SAX application writers, who can use it to create a persistent copy of an element's attribute specifications:</p>

```java
private AttributeList myatts;

public void startElement (String name, AttributeList atts) {
    // create a persistent copy of the attribute list
    // for use outside this method
    myatts = new AttributeListImpl(atts);
    [...]
}
```

* Please note that SAX parsers are not required to use this class to provide an implementation of AttributeList; it is supplied only as an optional convenience. In particular, parser writers are encouraged to invent more efficient implementations.</p>

* @deprecated This class implements a deprecated interface, [@link org.xml.sax.AttributeList AttributeList]; that interface has been replaced by [@link org.xml.sax.Attributes Attributes], which is implemented in the [@link org.xml.sax.helpers.AttributesImpl AttributesImpl] helper class.

* @since SAX 1.0
* @author David Megginson,
  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.AttributeList
* @see org.xml.sax.DocumentHandler#startElement
*/
// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for an XML filter.
 *<blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 *</blockquote>
 *
 * An XML filter is like an XML reader, except that it obtains its
 * events from another XML reader rather than a primary source like
 * an XML document or database. Filters can modify a stream of
 * events as they pass on to the final application.</p>
 *
 * The XMLFilterImpl helper class provides a convenient base
 * for creating SAX2 filters, by passing on all <link sax.EntityResolver>
 * EntityResolver</link>, <link sax/DTDHandler> DTDHandler</link>,
 * <link sax/ContentHandler> ContentHandler</link> and <link sax/ErrorHandler>
 * ErrorHandler</link> events automatically.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 * @version 2.0
 * @see org.xml.sax.helpers.XMLFilterImpl
 */

// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for associating a SAX event with a document location.
 *<blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 *</blockquote>
 *
 * If a SAX parser provides location information to the SAX
 * application, it does so by implementing this interface and then
 * passing an instance to the application using the content
* handler's [@link org.xml.sax.ContentHandler#setDocumentLocator setDocumentLocator] method. The application can use the * object to obtain the location of any other content handler event * in the XML source document.</p>

*<p>Note that the results returned by the object will be valid only * during the scope of each content handler method: the application * will receive unpredictable results if it attempts to use the * locator at any other time.</p>

* <p>SAX parsers are not required to supply a locator, but they are * very strongly encouraged to do so. If the parser supplies a * locator, it must do so before reporting any other document events. * If no locator has been set by the time the application receives * the [@link org.xml.sax.ContentHandler#startDocument startDocument] * event, the application should assume that a locator is not * available.</p>

* @since SAX 1.0
* @author David Megginson,
*      <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.ContentHandler#setDocumentLocator
* /

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/Locator.java
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/**
* Receive notification of basic DTD-related events.
* *
* <blockquote>
* <em>This module, both source code and documentation, is in the *
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>If a SAX application needs information about notations and *
* unparsed entities, then the application implements this *
* interface and registers an instance with the SAX parser using *
* the parser's setDTDHandler method. The parser uses the *
* instance to report notation and unparsed entity declarations to *
* the application.</p>
*
* <p>Note that this interface includes only those DTD events that *
* the XML recommendation <em>requires</em> processors to report: *
* notation and unparsed entity declarations.</p>
*
The SAX parser may report these events in any order, regardless of the order in which the notations and unparsed entities were declared; however, all DTD events must be reported after the document handler's startDocument event, and before the first startElement event.

It is up to the application to store the information for future use (perhaps in a hash table or object tree). If the application encounters attributes of type "NOTATION", "ENTITY", or "ENTITIES", it can use the information that it obtained through this interface to find the entity and/or notation corresponding with the attribute value.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#setDTDHandler
@see org.xml.sax.HandlerBase

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This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY. This class implements the default behaviour for four SAX1 interfaces: EntityResolver, DTDHandler, DocumentHandler, DocumentBuilder, and ErrorHandler.
and ErrorHandler. It is now obsolete, but is included in SAX2 to
support legacy SAX1 applications. SAX2 applications should use
the [@link org.xml.sax.helpers.DefaultHandler DefaultHandler]
class instead.</p>

Application writers can extend this class when they need to
implement only part of an interface; parser writers can
 instantiate this class to provide default handlers when the
application has not supplied its own.</p>

Note that the use of this class is optional.</p>

@deprecated This class works with the deprecated
interface. It has been replaced by the SAX2
class.
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@since SAX 1.0
@version 2.0
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.DocumentHandler
@see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/HandlerBase.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMBuilderFilter.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ls/DOMInputSource.java
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*/
/**
 * <strong>DOM Level 3 WD Experimental:</strong>
 * The DOM Level 3 specification is at the stage
 * of Working Draft, which represents work in
 * progress and thus may be updated, replaced,
 * or obsoleted by other documents at any time.</p>
 * <code> XPathEvaluator </code>, which will provide evaluation of XPath 1.0
 * expressions with no specialized extension functions or variables. It is
 * expected that the <code> XPathEvaluator </code> interface will be
 * implemented on the same object which implements the <code> Document </code>
 * interface in an implementation which supports the XPath DOM module.
 * <code> XPathEvaluator </code> implementations may be available from other
 * sources that may provide support for special extension functions or
variables which are not defined in this specification. The methods of
XPathExpression should be named with more-XPath- specific names because
the interface will often be implemented by the same object which
implements document. No change. The point of interfaces is to localize the
implementing namespace. This would make the method names unnecessarily
long and complex even though there are no conflicts in the interface
itself. The new core method getInterface is designed for discovering
interfaces of additional modules that may not be directly implemented on
the objects to which they are attached. This could be used to implement
XPath on a separate object. The user only refers to the separate
interfaces and not the proprietary aggregate implementation. Should entity
refs be supported so that queries can be made on them? No change. We will
not do this now. They are not part of the XPath data model. Note that
they may be present in the hierarchy of returned nodes, but may not
directly be requested or returned in the node set. What does createResult
create when one wants to reuse the XPath? It is not useful. Removed method.
Should ordering be a separate flag, or a type of result that can be
requested. As a type of result, it can be better optimized in
implementations. It makes sense as a type of result. Changed. Removed
method. Implementing XPathEvaluator on Document can be a problem due to
conflicts in the names of the methods. The working group finds no better
solution. GetInterface in Level 3 permits the object to be implemented
separately. We should be committed to this. We will leave this issue open
to see if we get more feedback on it. How does this interface adapt to
XPath 2.0 and other query languages? No change. This interface is not
intended to adapt to XPath 2.0 or other languages. The models of these
are likely to be incompatible enough to require new APIs. For alternate
implementations that can use this API, it can be obtained from different
sources. Support for custom variables and functions would be very useful.
No change. It is possible for an implementation to supply alternative
sources of an XPathEvaluator that can be customized with a custom
variable and function context. We do not specify how this is
accomplished. It is too complex to address in this version of the XPath
DOM.

See also the Document Object Model (DOM) Level 3 XPath Specification.

Interface for an element’s attribute specifications.

This module, both source code and documentation, is in the
This is the original SAX1 interface for reporting an element's attributes. Unlike the new `Attributes` interface, it does not support Namespace-related information.

When an attribute list is supplied as part of a `DocumentHandler#startElement` event, the list will return valid results only during the scope of the event; once the event handler returns control to the parser, the attribute list is invalid. To save a persistent copy of the attribute list, use the SAX1 `AttributeListImpl` helper class.

An attribute list includes only attributes that have been specified or defaulted: #IMPLIED attributes will not be included.

There are two ways for the SAX application to obtain information from the `AttributeList`. First, it can iterate through the entire list:

```java
public void startElement (String name, AttributeList atts) {
  for (int i = 0; i < atts.getLength(); i++) {
    String name = atts.getName(i);
    String type = atts.getType(i);
    String value = atts.getValue(i);
    [...]
  }
}
```

(Note that the result of `getLength()` will be zero if there are no attributes.)

As an alternative, the application can request the value or type of specific attributes:

```java
public void startElement (String name, AttributeList atts) {
  String identifier = atts.getValue("id");
  String label = atts.getValue("label");
  [...]
}
```
* @deprecated This interface has been replaced by the SAX2
*   [@link org.xml.sax.Attributes Attributes]
*   interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*       [<a href="mailto:sax@megginson.com">sax@megginson.com</a>]
* @version 2.0
* @see org.xml.sax.DocumentHandler#startElement startElement
* @see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java

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/**
* Receive notification of general document events.
*
* <blockquote>
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* </blockquote>

* This was the main event-handling interface for SAX1; in
* SAX2, it has been replaced by [@link org.xml.sax.ContentHandler
* ContentHandler], which provides Namespace support and reporting
* of skipped entities. This interface is included in SAX2 only
* to support legacy SAX1 applications.</p>
*
* The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>
*
* Application writers who do not want to implement the entire
* interface can derive a class from HandlerBase, which implements
* the default functionality; parser writers can instantiate
* HandlerBase to obtain a default handler. The application can find
* the location of any document event using the Locator interface
* supplied by the Parser through the setDocumentLocator method.</p>
*
* @deprecated This interface has been replaced by the SAX2
*   [@link org.xml.sax.ContentHandler ContentHandler]
*   interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*       [<a href="mailto:sax@megginson.com">sax@megginson.com</a>]

Factory for creating an XML reader.

<blockquote>
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</blockquote>

This class contains static methods for creating an XML reader from an explicit class name, or based on runtime defaults:

```java
try {
   XMLReader myReader = XMLReaderFactory.createXMLReader();
} catch (SAXException e) {
   System.err.println(e.getMessage());
}
```

Note to Distributions bundled with parsers: You should modify the implementation of the no-arguments createXMLReader to handle cases where the external configuration mechanisms aren't set up. That method should do its best to return a parser when one is in the class path, even when nothing bound its class name to org.xml.sax.driver so those configuration mechanisms would see it.

@since SAX 2.0

@since 2.0

@version 2.0

@author David Megginson, David Brownell

*/
jar/org/xml/sax/helpers/XMLReaderFactory.java
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// This class is in the Public Domain. NO WARRANTY!
/**
 * Encapsulate Namespace logic for use by SAX drivers.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</blockquote>
 *
 * This class encapsulates the logic of Namespace processing:
 * it tracks the declarations currently in force for each context
 * and automatically processes qualified XML 1.0 names into their
 * Namespace parts; it can also be used in reverse for generating
 * XML 1.0 from Namespaces.
 *
 * Namespace support objects are reusable, but the reset method
 * must be invoked between each session.
 *
 * Here is a simple session:
 *
 * String parts[] = new String[3];
 * NamespaceSupport support = new NamespaceSupport();
 * support.pushContext();
 * support.declarePrefix("", "http://www.w3.org/1999/xhtml");
 * support.declarePrefix("dc", "http://www.purl.org/dc#");
 * String parts[] = support.processName("p", parts, false);
 * System.out.println("Namespace URI: " + parts[0]);
 * System.out.println("Local name: " + parts[1]);
 * System.out.println("Raw name: " + parts[2]);
 * String parts[] = support.processName("dc:title", parts, false);
 * System.out.println("Namespace URI: " + parts[0]);
 * System.out.println("Local name: " + parts[1]);
 * System.out.println("Raw name: " + parts[2]);
 *
 * support.popContext();
 * </pre>
 *
 * Note that this class is optimized for the use case where most
 * elements do not contain Namespace declarations: if the same
 * prefix/URI mapping is repeated for each context (for example), this
 * class will be somewhat less efficient.
/*
 * @since SAX 2.0
 * @author David Megginson,
 *        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 */

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/opt/cola/permits/1150916854_1617719483.11/org/xml/sax/helpers/NamespaceSupport.java
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// NO WARRANTY! This class is in the public domain.
/**
 * Default base class for SAX2 event handlers.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class is available as a convenience base class for SAX2
 * applications: it provides default implementations for all of the
 * callbacks in the four core SAX2 handler classes:
 *
 * <ul>
 * <li>{@link org.xml.sax.EntityResolver EntityResolver}</li>
 * <li>{@link org.xml.sax.DTDHandler DTDHandler}</li>
 * <li>{@link org.xml.sax.ContentHandler ContentHandler}</li>
 * <li>{@link org.xml.sax.ErrorHandler ErrorHandler}</li>
 * </ul>
 *
 * Application writers can extend this class when they need to
 * implement only part of an interface; parser writers can
 * instantiate this class to provide default handlers when the
 * application has not supplied its own.
 *
 * This class replaces the deprecated SAX1
 * { @link org.xml.sax.HandlerBase HandlerBase } class.
 *
 * @since SAX 2.0
 * @author David Megginson,
 *        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
 * @see org.xml.sax.ContentHandler
 * @see org.xml.sax.ErrorHandler
/**
 * Encapsulate an XML parse error or warning.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.
 * </em>
 * </blockquote>
 *
 * This exception will include information for locating the error
 * in the original XML document. Note that although the application
 * will receive a SAXParseException as the argument to the handlers
 * in the [@link org.xml.saxErrorHandler ErrorHandler] interface,
 * the application is not actually required to throw the exception;
 * instead, it can simply read the information in it and take a
 * different action.
 *
 * Since this exception is a subclass of [@link org.xml.saxSAXException
 * SAXException], it inherits the ability to wrap another exception.
 *
 * @since SAX 1.0
 * @author David Megginson,
 * @version 2.0
 * @see org.xml.sax.SAXException
 * @see org.xml.sax.Locator
 * @see org.xml.sax.ErrorHandler
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/DefaultHandler.java
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/RangeException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Text.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/DocumentEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventTarget.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/TreeWalker.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentFragment.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CDATASection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/node/Node.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NodeList.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentType.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMImplementation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/parentNode/NodeInterface.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DocumentRange.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/DOMException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Element.java
**/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/NodeFilter.java
*/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Document.java
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/**
 * Basic interface for resolving entities.
 *
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 * &lt;/blockquote&gt;
 *
 * &lt;p&gt;If a SAX application needs to implement customized handling
 * for external entities, it must implement this interface and
 * register an instance with the SAX driver using the
 * {@link org.xml.sax.XMLReader#setEntityResolver setEntityResolver}
 * method.&lt;/p&gt;
 *
 * &lt;p&gt;The XML reader will then allow the application to intercept any
 * external entities (including the external DTD subset and external
 * parameter entities, if any) before including them.&lt;/p&gt;
 *
 * &lt;p&gt;Many SAX applications will not need to implement this interface,
 * but it will be especially useful for applications that build
 * XML documents from databases or other specialised input sources,
 * or for applications that use URI types other than URLs.&lt;/p&gt;
 *
 * &lt;p&gt;The following resolver would provide the application
 * with a special character stream for the entity with the system
 * identifier "http://www.myhost.com/today":&lt;/p&gt;
 *
 * &lt;pre&gt;
 import org.xml.sax.EntityResolver;
 import org.xml.sax.InputSource;
 *
 public class MyResolver implements EntityResolver {
 public InputSource resolveEntity (String publicId, String systemId)
 
 if (systemId.equals("http://www.myhost.com/today")) {
     // return a special input source
     MyReader reader = new MyReader();
     return new InputSource(reader);
 } else {
     // use the default behaviour
     return null;
 }
 * }
The application can also use this interface to redirect system identifiers to local URIs or to look up replacements in a catalog (possibly by using the public identifier).

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#setEntityResolver
@see org.xml.sax.InputSource
*/

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jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLSelectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLMenuElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHeadingElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableCellElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHeadElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLBaseFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLOListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFrameSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLStyleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLHRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLOptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFieldSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLLegendElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLFormElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLTableElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLCollection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/html/HTMLCollection.java
Open Source Used In Cisco Emergency Responder 14Su1 MFG 12302
/*
 * Provide an optional convenience implementation of Locator.
 *
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 * &lt;/blockquote&gt;
 *
 * &lt;p&gt;This class is available mainly for application writers, who
 * can use it to make a persistent snapshot of a locator at any
 * point during a document parse:&lt;/p&gt;
 *
 * &lt;pre&gt;
 * Locator locator;
 * Locator startloc;
 *
 * public void setLocator (Locator locator)
 * {
 *     // note the locator
 *     this.locator = locator;
 * }
 *
 * public void startDocument ()
 * {
 *     // save the location of the start of the document
 *     // for future use.
 *     Locator startloc = new LocatorImpl(locator);
 * }
 * &lt;/pre&gt;
 *
 * &lt;p&gt;Normally, parser writers will not use this class, since it
 * is more efficient to provide location information only when
 * requested, rather than constantly updating a Locator object.&lt;/p&gt;
 *
 * &lt;@since SAX 1.0
 * @author David Megginson,
 * &lt;a href="mailto:sax@megginson.com">sax@megginson.com&lt;/a&gt;
 * &lt;/pre&gt;
 *
 * &lt;version 2.0
 * &lt;see org.xml.sax.Locator Locator

*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/LocatorImpl.java

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/FactoryConfigurationError.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParserFactory.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/javax/xml/parsers/SAXParser.java

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// NO WARRANTY! This class is in the Public Domain.
/**
* Interface for reading an XML document using callbacks.
*
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* 
*/

* &lt;em&gt;XMLReader is the interface that an XML parser's SAX2 driver must implement. This interface allows an application to set and register event handlers for document processing, and to initiate...
All SAX interfaces are assumed to be synchronous: the
[@link #parse parse] methods must not return until parsing
is complete, and readers must wait for an event-handler callback
to return before reporting the next event.

This interface replaces the (now deprecated) SAX 1.0 [@link
org.xml.sax.Parser Parser] interface. The XMLReader interface
contains two important enhancements over the old Parser
interface:

- It adds a standard way to query and set features and
  properties; and
- It adds Namespace support, which is required for many
  higher-level XML standards.

There are adapters available to convert a SAX1 Parser to
a SAX2 XMLReader and vice-versa.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.XMLFilter
@see org.xml.sax.helpers.ParserAdapter
@see org.xml.sax.helpers.XMLReaderAdapter

A single input source for an XML entity.

This module, both source code and documentation, is in the
Public Domain, and comes with <strong>NO WARRANTY</strong>.

This class allows a SAX application to encapsulate information
about an input source in a single object, which may include
a public identifier, a system identifier, a byte stream (possibly
with a specified encoding), and/or a character stream.
There are two places that the application will deliver this input source to the parser: as the argument to the Parser.parse method, or as the return value of the EntityResolver.resolveEntity method.</p>

The SAX parser will use the InputSource object to determine how to read XML input. If there is a character stream available, the parser will read that stream directly; if not, the parser will use a byte stream, if available; if neither a character stream nor a byte stream is available, the parser will attempt to open a URI connection to the resource identified by the system identifier.</p>

An InputSource object belongs to the application: the SAX parser shall never modify it in any way (it may modify a copy if necessary).</p>

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Exception class for an unsupported operation.

An XMLReader will throw this exception when it recognizes a feature or property identifier, but cannot perform the requested operation (setting a state or value). Other SAX2 applications and extensions may use this class for similar purposes.

@since SAX 1.0
@version 2.0
@see org.xml.sax.Parser#parse
@see org.xml.sax.EntityResolver#resolveEntity
@see java.io.InputStream
@see java.io.Reader

// NO WARRANTY!  This class is in the Public Domain.
/**
 * Exception class for an unsupported operation.
 *
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An XMLReader will throw this exception when it recognizes a feature or property identifier, but cannot perform the requested operation (setting a state or value). Other SAX2 applications and extensions may use this class for similar purposes.</p>

@since SAX 2.0
@author David Megginson,

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/*
* Open Source Used In Cisco Emergency Responder 14Su1 MFG 12308
* @version 2.0
* @see org.xml.sax.SAXNotRecognizedException
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
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// NO WARRANTY!  This class is in the public domain.
/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 */
This class wraps a SAX1 {@link org.xml.sax.Parser Parser} and makes it act as a SAX2 {@link org.xml.sax.XMLReader XMLReader}, with feature, property, and Namespace support. Note that it is not possible to report {@link org.xml.sax.ContentHandler#skippedEntity skippedEntity} events, since SAX1 does not make that information available.

This adapter does not test for duplicate Namespace-qualified attribute names.

@since SAX 2.0
@author David Megginson, sax@megginson.com
@version 2.0
@see org.xml.sax.helpers.XMLReaderAdapter
@see org.xml.sax.XMLReader
@see org.xml.sax.Parser

/*
 **
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * This class is in the Public Domain, and comes with NO WARRANTY of any kind.
 *
 * This wrapper class is used only when Namespace support is disabled -- it provides pretty much a direct mapping from SAX1 to SAX2, except that names and types are interned whenever requested.
 *
 */

/!

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// NO WARRANTY! This class is in the public domain.
/**
 * Default implementation of the Attributes interface.
 *
 * @see org.xml.sax.helpers.AttributeListImpl
 *
 */

/*
 * This module, both source code and documentation, is in the Public Domain, and comes with NO WARRANTY.
 *
 *
 */

This class provides a default implementation of the SAX2
* [@link org.xml.sax.Attributes Attributes} interface, with the
* addition of manipulators so that the list can be modified or
* reused.</p>
*
* <p>There are two typical uses of this class:</p>
*
* <ol>
* <li>to take a persistent snapshot of an Attributes object
* in a [@link org.xml.sax.ContentHandler#startElement startElement} event; or</li>
* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
* </ol>
*
* <p>This class replaces the now-deprecated SAX1 [@link
* org.xml.sax.helpers.AttributeListImpl AttributeListImpl} class; in addition to supporting the updated Attributes
* interface rather than the deprecated [@link org.xml.sax.AttributeList
* AttributeList} interface, it also includes a much more efficient
* implementation using a single array rather than a set of Vectors.</p>
*
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/helpers/AttributesImpl.java
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// NO WARRANTY!  This class is in the Public Domain.
/**
* Create a new instance of a class by name.
* *
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</blockquote>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
* *
* <p>This class contains a static method for creating an instance of a
* class from an explicit class name.  It tries to use the thread's context
* ClassLoader if possible and falls back to using
* Class.forName(String).  It also takes into account JDK 1.2+'s
* AccessController mechanism for performing its actions.</p>
*
* <p>This code is designed to run on JDK version 1.1 and later and compile
* on versions of Java 2 and later.</p>
/**
 * Encapsulate a general SAX error or warning.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class can contain basic error or warning information from
 * either the XML parser or the application: a parser writer or
 * application writer can subclass it to provide additional
 * functionality. SAX handlers may throw this exception or
 * any exception subclassed from it.
 *
 * If the application needs to pass through other types of
 * exceptions, it must wrap those exceptions in a SAXException
 * or an exception derived from a SAXException.
 *
 * If the parser or application needs to include information about a
 * specific location in an XML document, it should use the
 * SAXParseException subclass.
 *
 * @since SAX 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXParseException
 */

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/**
 * Exception class for an unrecognized identifier.
 *
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<p>An XMLReader will throw this exception when it finds an unrecognized feature or property identifier; SAX applications and extensions may use this class for other, similar purposes.</p>

<p>@since SAX 2.0</p>

<p>@author David Megginson, <a href="mailto:sax@megginson.com">sax@megginson.com</a></p>

<p>@version 2.0</p>

<p>@see org.xml.sax.SAXNotSupportedException</p>

/*

Found in path(s):
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/**
* Create a new &lt;code&gt;DOMBuilder&lt;/code&gt;. The newly constructed parser may then be configured by means of its &lt;code&gt;setFeature&lt;/code&gt; method, and used to parse documents by means of its &lt;code&gt;parse&lt;/code&gt; method.
* @param mode The &lt;code&gt;mode&lt;/code&gt; argument is either &lt;code&gt;MODE_SYNCHRONOUS&lt;/code&gt; or &lt;code&gt;MODEASYNCHRONOUS&lt;/code&gt;,
* `<code>mode</code>` is `<code>MODE_SYNCHRONOUS</code>` then the
* `<code>DOMBuilder</code>` that is created will operate in synchronous
* mode, if it's `<code>MODEASYNCHRONOUS</code>` then the
* `<code>DOMBuilder</code>` that is created will operate in
* asynchronous mode.
* `@param schemaType` An absolute URI representing the type of the schema
* language used during the load of a `<code>Document</code>` using the
* newly created `<code>DOMBuilder</code>`. Note that no lexical
* checking is done on the absolute URI. In order to create a
* `<code>DOMBuilder</code>` for any kind of schema types (i.e. the
* `DOMBuilder` will be free to use any schema found), use the value
* `<code>null</code>`.
* For W3C XML Schema, applications must use the
* value `<code>"http://www.w3.org/2001/XMLSchema"</code>`.
* For XML DTD
* , applications must use the value
* `<code>"http://www.w3.org/TR/REC-xml"</code>`. Other Schema languages
* are outside the scope of the W3C and therefore should recommend an
* absolute URI in order to use this method.
* `@return` The newly created `<code>DOMBuilder</code>` object. This
* `<code>DOMBuilder</code>` is either synchronous or asynchronous
* depending on the value of the `<code>mode</code>` argument. By
* default, the newly created `<code>DOMBuilder</code>` does not contain
* a `<code>DOMErrorHandler</code>`, i.e. the value of the
* `<code>errorHandler</code>` is `<code>null</code>`. However,
* implementations may provide a default error handler at creation
* time. In that case, the initial value of the
* `<code>errorHandler</code>` attribute on the new created
* `<code>DOMBuilder</code>` contains a reference to the default error
* handler.
* `@exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

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* `/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
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/**
* Basic interface for SAX (Simple API for XML) parsers.
* *
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* `<em>`This module, both source code and documentation, is in the
* Public Domain, and comes with `<strong>`NO WARRANTY</strong>.`</em`
* `<blockquote>`
* *
* `<p>`This was the main event supplier interface for SAX1; it has
* been replaced in SAX2 by `{@link org.xml.sax.XMLReader XMLReader}`,
* which includes Namespace support and sophisticated configurability
* and extensibility. </p>
*
* <p>All SAX1 parsers must implement this basic interface: it allows
* applications to register handlers for different types of events
* and to initiate a parse from a URI, or a character stream.</p>
*
* <p>All SAX1 parsers must also implement a zero-argument constructor
* (though other constructors are also allowed).</p>
*
* <p>SAX1 parsers are reusable but not re-entrant: the application
* may reuse a parser object (possibly with a different input source)
* once the first parse has completed successfully, but it may not
* invoke the parse() methods recursively within a parse.</p>
*
* @deprecated This interface has been replaced by the SAX2
*     { @link org.xml.sax.XMLReader XMLReader} interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
*     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

Found in path(s):
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/**
 * SAX2 extension handler for DTD declaration events.
 *
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * 
 */

* This is an optional extension handler for SAX2 to provide
* information about DTD declarations in an XML document. XML
* readers are not required to support this handler, and this
* handler is not included in the core SAX2 distribution.</p>
Note that data-related DTD declarations (unparsed entities and notations) are already reported through the \{ @link org.xml.sax.DTDHandler DTDHandler \} interface.

If you are using the declaration handler together with a lexical handler, all of the events will occur between the \{ @link org.xml.sax.ext.LexicalHandler#startDTD startDTD \} and the \{ @link org.xml.sax.ext.LexicalHandler#endDTD endDTD \} events.

To set the DeclHandler for an XML reader, use the \{ @link org.xml.sax.XMLReader#setProperty setProperty \} method with the propertyId "http://xml.org/sax/properties/declaration-handler".

If the reader does not support declaration events, it will throw a \{ @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException \} or a \{ @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException \} when you attempt to register the handler.

@since 1.0
@tutorial</a>sax@megginson.com}@megginson.com}
@tutorial getVersion 1.0
@tutorial org.xml.sax.XMLReader

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This class is designed to work with the now-deprecated SAX1 \{ @link org.xml.sax.Parser Parser \} class. SAX2 applications should use \{ @link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory \} instead.

ParserFactory is not part of the platform-independent definition of SAX; it is an additional convenience class designed specifically for Java XML application writers. SAX applications can use the static methods in this class to allocate a SAX parser dynamically at run-time based either on the value of the

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* `org.xml.sax.parser` system property or on a string containing the class
* name.</p>
*
* <p>Note that the application still requires an XML parser that
* implements SAX1.</p>
*
* @deprecated This class works with the deprecated
* {@link org.xml.sax.Parser Parser} interface.
* @since SAX 1.0
* @author David Megginson
* @version 2.0r2pre3
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
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This class wraps a SAX2 [XMLReader] and makes it act as a SAX1 [Parser].

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/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
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 *</blockquote>

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/javax/xml/parsers/FilePathToURI.java
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http://xml.org/sax/features/namespace-prefixes property or parsing will fail
with a [SAXException]; if the XMLReader
supports a false value for the http://xml.org/sax/features/namespace-prefixes property or parsing will fail
with a [SAXException]; if the XMLReader
supports a false value for the http://xml.org/sax/features/namespace-prefixes property or parsing will fail
with a [SAXException]; if the XMLReader
supports a false value for the http://xml.org/sax/features/namespace-prefixes property or parsing will fail
with a [SAXException]; if the XMLReader
supports a false value for the http://xml.org/sax/features/namespace-prefixes property or parsing will fail
with a [SAXException]; if the XMLReader
supports a false value for the http://xml.org/sax/features/namespace-prefixes property or parsing will fail
with a [SAXException]; if the XMLReader
* @since SAX 2.0
* @author David Megginson,
*          <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.Parser
* @see org.xml.sax.XMLReader
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/helpers/XMLReaderAdapter.java

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// NO WARRANTY! This class is in the public domain.
/**
 * Receive notification of the logical content of a document.
 *
 * *<blockquote>
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 * </blockquote>
 *
 * This is the main interface that most SAX applications
 * implement: if the application needs to be informed of basic parsing
 * events, it implements this interface and registers an instance with
 * the SAX parser using the {@link org.xml.sax.XMLReader#setContentHandler}
 * setContentHandler} method. The parser uses the instance to report
 * basic document-related events like the start and end of elements
 * and character data.</p>
 *
 * The order of events in this interface is very important, and
 * mirrors the order of information in the document itself. For
 * example, all of an element's content (character data, processing
 * instructions, and/or subelements) will appear, in order, between
 * the startElement event and the corresponding endElement event.</p>
 *
 * This interface is similar to the now-deprecated SAX 1.0
 * DocumentHandler interface, but it adds support for Namespaces
 * and for reporting skipped entities (in non-validating XML
 * processors).</p>
 *
 * Implementors should note that there is also a Java class
 * {@link java.net.ContentHandler ContentHandler} in the java.net
 * package; that means that it's probably a bad idea to do</p>
 *
 * <blockquote>
* import java.net.*;
* import org.xml.sax.*;
* </blockquote>

* <p>In fact, "import ...*" is usually a sign of sloppy programming
* anyway, so the user should consider this a feature rather than a
* bug.</p>
*
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.XMLReader
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ErrorHandler
*/

// Public Domain: no warranty.
/**
* SAX2 extension handler for lexical events.
* 
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* Public Domain, and comes with NO WARRANTY.
* 
* This is an optional extension handler for SAX2 to provide
* lexical information about an XML document, such as comments
* and CDATA section boundaries; XML readers are not required to
* support this handler, and it is not part of the core SAX2
* distribution.</p>
*
* The events in the lexical handler apply to the entire document,
* not just to the document element, and all lexical handler events
* must appear between the content handler's startDocument and
* endDocument events.</p>
*
* To set the LexicalHandler for an XML reader, use the
* @link org.xml.sax.XMLReader#setProperty setProperty] method
* with the propertyId "http://xml.org/sax/properties/lexical-handler".
* If the reader does not support lexical events, it will throw a
* @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException
* or a
* @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException
* 
* Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ContentHandler.java
* No license file was found, but licenses were detected in source scan.
when you attempt to register the handler.

* @since 1.0
* @author David Megginson,
  <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 1.0
* @see org.xml.sax.XMLReader#setProperty
* @see org.xml.sax.SAXNotRecognizedException
* @see org.xml.sax.SAXNotSupportedException
*/

Found in path(s):

*/

1.1150 ace 6.1.1
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22. http://www.dre.vanderbilt.edu/~schmidt/

1.1151 ntp 4.2.6p5-29.el7_8.2

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpSweep
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40. [43]Tom Moore <tmoore@fivel.daytonoh.nrc.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <r Neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <rainer.pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
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  jar/org/owasp/esapi/crypto/CryptoToken.java

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 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2009
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/waf/rules/ReplaceContentRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/waf/rules/AddHTTPOnlyFlagRule.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
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 * @author Pawan Singh (pawan.singh@owasp.org) <a href="www.owasp.org">OWASP</a>
 * @created 2009
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/util/DefaultMessageUtil.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2009
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/PreparedString.java
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*Found in path(s):*
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/DB2Codec.java

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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
 * @created 2007
 */

/**
 * Encrypts the provided plaintext and returns a ciphertext string using the
 * master secret key and default cipher transformation.
 *
 * <p>
 * <b>Compatibility with earlier ESAPI versions:</b> The symmetric encryption
 * in ESAPI 2.0 and later is not compatible with the encryption in ESAPI 1.4
 * or earlier. Not only are the interfaces slightly different, but they format
 * of the serialized encrypted data is incompatible. Therefore, if you have
 * encrypted data with ESAPI 1.4 or earlier, you must first encrypt it and
 * then re-encrypt it with ESAPI 2.0. Backward compatibility with ESAPI 1.4
 * was proposed to both the ESAPI Developers and ESAPI Users mailing lists
 * and voted down. More details are available in the ESAPI document
 */
Why this method is deprecated:
Most cryptographers strongly suggest that if you are creating crypto functionality for general-purpose use, at a minimum you should ensure that it provides authenticity, integrity, and confidentiality. This method only provides confidentiality, but not authenticity or integrity. Therefore, you are encouraged to use one of the other encryption methods referenced below. Because this method provides neither authenticity nor integrity, it may be removed in some future ESAPI Java release. Note: there are some cases where authenticity / integrity are not that important. For instance, consider a case where the encrypted data is never out of your application’s control. For example, if you receive data that your application is encrypting itself and then storing the encrypted data in its own database for later use (and no other applications can query or update that column of the database), providing confidentiality alone might be sufficient. However, if there are cases where your application will be sending or receiving already encrypted data over an insecure, unauthenticated channel, in such cases authenticity and integrity of the encrypted data likely is important and this method should be avoided in favor of one of the other two.

@throws EncryptionException
   if the specified encryption algorithm could not be found or another problem exists with the encryption of 'plaintext'

@deprecated As of 1.4.2; use @link #encrypt(PlainText) instead, which also ensures message authenticity. This method will be completely removed as of the next major release or point release (3.0 or 2.1, whichever comes first) as per OWASP deprecation policy.
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007

/**
 * An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
 * in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
 * either specially logging the event, logging out the current user, or invalidating the current user's account.
 * <P>
 * Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
 * anywhere and will not require a lot of special exception handling.
 *
 * @author Jeff Williams (jeff.williams@aspectsecurity.com)
 */

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 * @author Patrick Higgins
* @created 2010

*/

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/**
 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the {code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * <p>
 * CAUTION: If this algorithm for computing derived keys from the
 * key derivation key is changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * <p>
 * NOTE: This method is generally not intended to be called separately.
 * It is used by ESAPI's reference crypto implementation class {code JavaEncryptor}
 * and might be useful for someone implementing their own replacement class, but
 * generally it is not something that is useful to application client code.
 *
 * @param keyDerivationKey  A key used as an input to a key derivation function
 * to derive other keys. This is the key that generally
 * is created using some key generation mechanism such as
 * {code generateSecretKey(String, int)}. The
 * "input" key from which the other keys are derived.
 * The derived key will have the same algorithm type
 * as this key.
 * @param keySize The cipher's key size (in bits) for the {code keyDerivationKey}.
 * Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
 * Note: The derived key will have the same size as this.
 * @param purpose The purpose for the derived key. Must be either the
 * string "encryption" or "authenticity". Use "encryption" for
 * creating a derived key to use for confidentiality, and "authenticity"
 * for a derived key to use with a MAC to ensure message authenticity.
 * @return The derived {code SecretKey} to be used according
 * to the specified purpose. Note that this serves the same purpose
 * as "label" in section 5.1 of NIST SP 800-108.
 * @throws NoSuchAlgorithmException The {code keyDerivationKey} has an unsupported
 * encryption algorithm or no current JCE provider supports
 * "HmacSHA1".
 * @throws EncryptionExceptionIf "UTF-8" is not supported as an encoding, then
 * this is thrown with the original {code UnsupportedEncodingException}
 * as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
 * be a common encoding supported by all Java implementations. Support
 * for it is usually in rt.jar.)
 * @throws InvalidKeyException Likely indicates a coding error. Should not happen.
 * @throws EncryptionException Throw for some precondition violations.
 * @deprecated Use {code KeyDerivationFunction} instead. This method will be removed as of
 * ESAPI release 2.1 so if you are using this, please change your code.
*/
/**
 * Return true if specified cipher mode is one of those specified in the
 * \{@code ESAPI.properties\} file that supports both confidentiality
 * <b>and</b> authenticity (i.e., a "combined cipher mode" as NIST refers
 * to it).
 * @param cipherMode The specified cipher mode to be used for the encryption
 * or decryption operation.
 * @return true if the specified cipher mode is in the comma-separated list
 * of cipher modes supporting both confidentiality and authenticity;
 * otherwise false.
 * @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
 */

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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/tags/BaseEncodeTag.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/tags/EncodeForVBScriptTag.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/tags/EncodeForHTMLTag.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
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/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/ValidationAvailabilityException.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/validation/HTMLValidationRule.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/errors/AuthenticationHostException.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/PercentCodec.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/MySQLCodec.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/WindowsCodec.java
/opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/StringUtilities.java
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* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1.jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
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 * @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
 */

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 * @created February 6, 2009
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>
 * *
 * @created 2007
 */

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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/LogFactory.java

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 *
 * @author Rogan Dawes<a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
 */

*<p>Encodes and decodes to and from Base64 notation.</p>*
*<p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a></p>*
*<p>The &lt;tt&gt;options&lt;/tt&gt; parameter, which appears in a few places, is used to pass
* several pieces of information to the encoder. In the "higher level" methods such as
* encodeBytes( bytes, options ) the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds
* (though that breaks strict Base64 compatibility), and encoding using the URL-safe
* and Ordered dialects.</p>*
*<p>The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:</p>*
*<code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );</code>*
*<p>to compress the data before encoding it and then making the output have no newline characters.</p>*
*<p>Change Log:</p>*
*<ul>*<li>v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the
* Base64.InputStream class to encode and decode on the fly which uses
  * less memory than encoding/decoding an entire file into memory before writing.</li>
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
  * when using very small files (~< 40 bytes).</li>
* v2.2 - Added some helper methods for encoding/decoding directly from
  * one file to the next. Also added a main() method to support command line
  * encoding/decoding from one file to the next. Also added these Base64 dialects:
  * &lt;ol&gt;
  * &lt;li&gt; The default is RFC3548 format.&lt;/li&gt;
  * &lt;li&gt; Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
    * URL and file name friendly format as described in Section 4 of RFC3548.
  * &lt;li&gt; Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
    * URL and file name friendly format that preserves lexical ordering as described
    * in http://www.faqs.org/qa/rfcc-1940.html</li>
  * Special thanks to Jim Kellerman at &lt;a href="http://www.powerset.com/">http://www.powerset.com/</a&gt;
  * for contributing the new Base64 dialects.
  * &lt;/ol&gt;
  * v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
  * some convenience methods for reading and writing to and from files.&lt;/li&gt;
  * v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
  * with other encodings (like EBCDIC).&lt;/li&gt;
  * v2.0.1 - Fixed an error when decoding a single byte, that is, when the
  * encoded data was a single byte.&lt;/li&gt;
  * v2.0 - I got rid of methods that used booleans to set options.
  * Now everything is more consolidated and cleaner. The code now detects
  * when data that's being decoded is gzip-compressed and will decompress it
  * automatically. Generally things are cleaner. You'll probably have to
  * change some method calls that you were making to support the new
  * options format (&lt;tt&gt;int&lt;/tt&gt;s that you "OR" together).&lt;/li&gt;
  * v1.5.1 - Fixed bug when decompressing and decoding to a
  * byte[] using &lt;tt&gt;decode( String s, boolean gzipCompressed )&lt;/tt&gt;.
  * Added the ability to "suspend" encoding in the Output Stream so
  * you can turn on and off the encoding if you need to embed base64
  * data in an otherwise "normal" stream (like an XML file).&lt;/li&gt;
  * v1.5 - Output stream pases on flush() command but doesn't do anything itself.
  * This helps when using GZIP streams.
  * Added the ability to GZip-compress objects before encoding them.&lt;/li&gt;
  * v1.4 - Added helper methods to read/write files.&lt;/li&gt;
  * v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.&lt;/li&gt;
  * v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  * where last buffer being read, if not completely full, was not returned.&lt;/li&gt;
  * v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.&lt;/li&gt;
  * v1.3.3 - Fixed I/O streams which were totally messed up.&lt;/li&gt;
  * &lt;/ul&gt;
  *
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Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
periodically to check for updates or to contribute improvements.

@author Robert Harder
@author rob@iharder.net
@version 2.2.2

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 * @created 2010
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/

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  jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java
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 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @author kevin.w.wall@gmail.com
 * @created 2007
 */

// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
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 * The method is ESAPI's Key Derivation Function (KDF) that computes a
 * derived key from the { @code keyDerivationKey} for either
 * encryption / decryption or for authentication.
 * <p>
 * <b>CAUTION:</b> If this algorithm for computing derived keys from the
 * key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
 * able to decrypt data previously encrypted with earlier / different versions
 * of this method. Therefore, do not change this unless you are 100% certain that
 * what you are doing will NOT change either of the derived keys for
 * ANY "key derivation key" AT ALL!!!
 * <p>
* <b>NOTE:</b> This method is generally not intended to be called separately.
* It is used by ESAPI's reference crypto implementation class [@code JavaEncryptor]
* and might be useful for someone implementing their own replacement class, but
* generally it is not something that is useful to application client code.
*
* @param keyDerivationKey  A key used as an input to a key derivation function
* to derive other keys. This is the key that generally
* is created using some key generation mechanism such as
* {@link #generateSecretKey(String, int)}. The
* "input" key from which the other keys are derived.
* The derived key will have the same algorithm type
* as this key. This KDK cannot be null.
* @param keySize The cipher's key size (in bits) for the [@code keyDerivationKey].
* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
* @param purpose The purpose for the derived key. For the ESAPI reference implementation,
* [@code JavaEncryptor], this <i>must</i> be either the string "encryption" or
* "authenticity", where "encryption" is used for creating a derived key to use
* for confidentiality, and "authenticity" is used for creating a derived key to
* use with a MAC to ensure message authenticity. However, since parameter serves
* the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
* be set to anything other than [@code null] or an empty string when called outside
* of [@code JavaEncryptor].
* @return The derived [@code SecretKey] to be used according
* to the specified purpose.
* @throws NoSuchAlgorithmException The [@code keyDerivationKey] has an unsupported
* encryption algorithm or no current JCE provider supports
* "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
* this is thrown with the original [@code UnsupportedEncodingException]
* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
* be a common encoding supported by all Java implementations. Support
* for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException  Throw for some precondition violations.
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/crypto/KeyDerivationFunction.java
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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
 * The reference implementation sets the work directory, escapes the parameters as per the Codec in use,
 * and then executes the command without using concatenation. The exact, absolute, canonical path of each
 * executable must be listed as an approved executable in the ESAPI properties. The executable must also
 * exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if
 * you are going to invoke this interface with confidential information.
 */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/DefaultExecutor.java
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 * @created 2007
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Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/reference/Log4JLogger.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/codecs/OracleCodec.java
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/reference/Log4JLogFactory.java
* /opt/cola/permits/1136415171_1613765306.4/jar/org/owasp/esapi/reference/RandomAccessReferenceMap.java
* /opt/cola/permits/1136415171_1613765306.4/jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
* /opt/cola/permits/1136415171_1613765306.4/jar/org/owasp/esapi/reference/crypto/ReferenceEncryptedProperties.java
* /opt/cola/permits/1136415171_1613765306.4/jar/org/owasp/esapi/reference/DefaultSecurityConfiguration.java
* /opt/cola/permits/1136415171_1613765306.4/jar/org/owasp/esapi/HTTPUtilities.java
* /opt/cola/permits/1136415171_1613765306.4/jar/org/owasp/esapi/Validator.java
* /opt/cola/permits/1136415171_1613765306.4/jar/org/owasp/esapi/reference/FileBasedAuthenticator.java

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 * @created 2007
 */

/**
 * executes a system command after checking that the executable exists and
 * escaping all the parameters to ensure that injection is impossible.
 * Implementations must change to the specified working
 * directory before invoking the command.
 *
 * @param executable
 * the command to execute
 * @param params
 * the parameters of the command being executed
 * @param workdir
 * the working directory
 * @param codec
 * the codec to use to encode for the particular OS in use
 * @param logParams
 * use false if any parameters contains sensitive or confidential information
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/**
 * This method adds a provider to the SecurityManager
 * either by some generic name or by the class name.
 * </p><p>
 * The following generic JCE provider names are built-in:
 * </ul>
 * <li>SunJCE</li>
 * <li>IBMJCE [for WebSphere]</li>
 * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
 * <li>BC [i.e., Bouncy Castle]</li>
 * <li>IAIK</li>
 * <li>CryptixCrypto (or Cryptix)</li>
 * <li>ABA</li>
 * </ul>
 * Note that neither Cryptix or ABA are actively maintained so
 * it is recommended that you do not start using them for ESAPI
 * unless your application already has a dependency on them. Furthermore,
 * the Cryptix JCE jars likely will not work as the Cryptix code signing
 * certificate has expired as of August 28, 2009. (This likely is true
 * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
 * provider is no longer offered as free, open source. It is not a
 * commercial product. See [link http://jce.iaik.tugraz.at/] for
 * details. While some older versions were offered free, it is not clear
 * whether the accompanying license still allows you to use it, and if
 * it does, whether or not the code signing certificate used to sign
 * their JCE jar(s) has expired are not. Therefore, if you are looking
 * for a FOSS alternative to SunJCE, Bouncy Castle
 * ([link http://www.bouncycastle.org/] is probably your best bet. The
 * BC provider does support many the "combined cipher modes" that provide
 * both confidentiality and authenticity. (See the [@code ESAPI.properties]
 * property [@code Encryptor.cipher_modes.combined_modes] for details.)
 * </p><p>
 * For those working in the U.S. federal government, it should be noted
 * that <i>none</i> of the providers listed here are considered validated
 * by NIST's Cryptographic Module Validation Program and are therefore
 * considered FIPS 140-2 compliant. There are a few approved
 * JCE compatible Java libraries that are on NIST's CMVP list, but this
 * list changes constantly so they are not listed here. For further details
 * on NIST's CMVP, see
 * [@link http://csrc.nist.gov/groups/STM/cmvp/index.html].
 * </p><p>
 * Finally, if you wish to use some other JCE provider not recognized above,
* you must specify the provider's fully-qualified class name (which in
* turn must have a public, no argument constructor).
* </p><p>
* The application must be given the [@code SecurityPermission] with a
* value of [@code insertProvider.&lt;provider_name&gt;] (where
* &lt;provider_name&gt; is the name of the algorithm provider if
* a security manager is installed.
* </p>

* @param algProvider Name of the JCE algorithm provider. If the name
* contains a ".", this is interpreted as the name
* of a [@code java.security.Provider] class name.
* @param pos The preference position (starting at 1) that the
caller would like for this provider. If you wish
* for it to be installed as the &lt;i&gt;last&lt;/i&gt; provider
* (as of the time of this call), set [@code pos] to -1.
* @return The actual preference position at which the provider was added,
* or -1 if the provider was not added because it is already
* installed.
* @exception NoSuchProviderException - thrown if the provider class
* could not be loaded or added to the [@code SecurityManager] or
* any other reason for failure.
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
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* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
* Return a [@code List] of strings of combined cipher modes that support
* &lt;b&gt;both&lt;/b&gt; confidentiality and authenticity. These would be preferred
* cipher modes to use if your JCE provider supports them. If such a
* cipher mode is used, no explicit <i>separate</i> MAC is calculated as part of
* the [@code CipherText] object upon encryption nor is any attempt made
* to verify the same on decryption.
* </p><p>
* The list is taken from the comma-separated list of cipher modes specified
* by the ESAPI property
* [@code Encryptor.cipher_modes.combined_modes].
* 
* @return The parsed list of comma-separated cipher modes if the property
* was specified in [@code ESAPI.properties]; otherwise the empty list is
* returned.
* */

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-
  jar/org/owasp/esapi/SecurityConfiguration.java
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* @created 2008
*/

Found in path(s):
* /opt/cola/permits/1136415171_1613765306.4/0/esapi-2-0-1-sources-1-jar/org/owasp/esapi/SafeFile.java

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Name: pytoml
Version: 0.1.14
Summary: A parser for TOML-0.4.0
Home-page: https://github.com/avakar/pytoml
Author: Martin Vejnír
Author-email: avakar@ratatanek.cz
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* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
  jar/org/springframework/web/client/ResponseExtractor.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
  jar/org/springframework/web/client/support/RestGatewaySupport.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
  jar/org/springframework/web/bind/annotation/Mapping.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2-
  jar/org/springframework/web/client/RequestCallback.java

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Found in path(s):
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/client/SimpleBufferingClientHttpRequest.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/web/bind/support/WebRequestDataBinder.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/HttpRange.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/client/AsyncClientHttpRequestExecution.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/client/AbstractBufferingClientHttpRequest.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/client/OkHttp3ClientHttpRequest.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/client/HttpComponentsClientHttpRequest.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/HttpMethod.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/Netty4ClientHttpResponse.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/client/OkHttpClientHttpRequest.java
* /opt/cola/permits/1136687503_1613859410.02/0/spring-web-4-3-14-release-sources-2.jar/org/springframework/http/client/OkHttpClientHttpRequest.java

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#
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#
include/freetype/internal/fhash.h
#
src/base/fhash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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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
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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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*
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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jfmmxint.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jimmxint.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jfss2int.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jiss2int-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jfss2int-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jiss2int.asm
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jdtrans.c

No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jinclude.h

No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware’s floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it’s more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima’s algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.680/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jidctflt.c

No license file was found, but licenses were detected in source scan.

/*
* jdmerge.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* 
* \[ R = Y + K1 \times Cr \]
* \[ G = Y + K2 \times Cb + K3 \times Cr \]
* \[ B = Y + K4 \times Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* \[ YCbCr => RGB \text{ color conversion only.} \]
* \[ \text{Sampling ratios of 2h1v or 2h2v.} \]
* \[ \text{No scaling needed at upsample time.} \]
* \[ \text{Corner-aligned (non-CCIR601) sampling alignment.} \]
* \[ \text{Other special cases could be added, but in most applications these are} \]
* \[ \text{the only common cases. (For uncommon cases we fall back on the more} \]
* \[ \text{general code in jdsample.c and jdcolor.c.)} \]
*
* libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate
* baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo
* is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform
* libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the
* performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward
TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit
and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by
Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

} Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-
turbo-1.2.90/release/ReadMe.rtf
No license file was found, but licenses were detected in source scan.

/*
* jdatadst.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-
turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-
turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-
turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-
turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-
turbo-1.2.90/simd/jimmxfst.asm
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-tar-gz/libjpeg-
turbo-1.2.90/simd/jiss2fst.asm
No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 */
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-jutils.c

No license file was found, but licenses were detected in source scan.

/ *
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
* *
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
* *
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90-rdrle.c

No license file was found, but licenses were detected in source scan.

/ *
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 

Open Source Used In Cisco Emergency Responder 14Su1 MFG 12573
* This include file defines the interface between the system-independent
  * and system-dependent portions of the JPEG memory manager. No other
  * modules need include it. (The system-independent portion is jmemmgr.c;
  * there are several different versions of the system-dependent portion.)
  *
  * This file works as-is for the system-dependent memory managers supplied
  * in the IJG distribution. You may need to modify it if you write a
  * custom memory manager. If system-dependent changes are needed in
  * this file, the best method is to #ifdef them based on a configuration
  * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
  * and USE_MAC_MEMMGR.
  */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jmemsys.h

No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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You should read at least the overview and basic usage sections before trying
to program with the library. The sections on advanced features can be read
if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image
files. The surrounding application program receives or supplies image data a
scanline at a time, using a straightforward uncompressed image format. All
details of color conversion and other preprocessing/postprocessing can be
handled by the library.

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. The application indirectly selects use of this code
by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard’s accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting
or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.
Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
===================

Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call.

It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you
have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12.
(See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
--------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to
initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djjpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.
You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

```
image_width	Width of image, in pixels
image_height	Height of image, in pixels
input_components	Number of color channels (samples per pixel)
in_color_space	Color space of source image
```

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */
```

```
jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:
jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```
jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.
7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.
You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header().
If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decomposition parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width	image width and height, as scaled
output_height
out_color_components	# of color components in out_color_space
output_components	# of color components returned per pixel
colormap	the selected colormap, if any
actual_number_of_colors	# of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).
6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

   Now you can read the decompressed image data by calling jpeg_read_scanlines()
   one or more times. At each call, you pass in the maximum number of scanlines
   to be read (ie, the height of your working buffer); jpeg_read_scanlines()
   will return up to that many lines. The return value is the number of lines
   actually read. The format of the returned data is discussed under "Data
   formats", above. Don't forget that grayscale and color JPEGs will return
   different data formats!

   Image data is returned in top-to-bottom scanline order. If you must write
   out the image in bottom-to-top order, you can use the JPEG library's virtual
   array mechanism to invert the data efficiently. Examples of this can be
   found in the sample application djpeg.

   The library maintains a count of the number of scanlines returned so far
   in the output_scanline field of the JPEG object. Usually you can just use
   this variable as the loop counter, so that the loop test looks like
   "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test
   should NOT be against image_height, unless you never use scaling. The
   image_height field is the height of the original unscaled image.)
   The return value always equals the change in the value of output_scanline.

   If you don't use a suspending data source, it is safe to assume that
   jpeg_read_scanlines() reads at least one scanline per call, until the
   bottom of the image has been reached.

   If you use a buffer larger than one scanline, it is NOT safe to assume that
   jpeg_read_scanlines() fills it. (The current implementation returns only a
   few scanlines per call, no matter how large a buffer you pass.) So you must
   always provide a loop that calls jpeg_read_scanlines() repeatedly until the
   whole image has been read.

7. jpeg_finish_decompress(...);

   After all the image data has been read, call jpeg_finish_decompress() to
   complete the decompression cycle. This causes working memory associated
   with the JPEG object to be released.

   Typical code:

   jpeg_finish_decompress(&cinfo);

   If using the stdio source manager, don't forget to close the source stdio
   stream if necessary.
It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don’t need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
-----------------------------------------------

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix
machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.
The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`
Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`
Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is FALSE, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`
Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.
int jpeg_quality_scaling (int quality)
Converting a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

ejpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values
(see below).

ejpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

ejpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.
boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see “Abbreviated datastreams”, below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker
TRUE if a JFIF APP0 marker was seen

UINT8 JFIF_major_version
Version information from JFIF marker

UINT8 JFIF_minor_version

UINT8 density_unit
Resolution data from JFIF marker

UINT16 X_density

UINT16 Y_density

boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field).
Default 256. Ignored when the application supplies its own color map.
boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing. CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
-------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance
color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jcolor.c currently supports the following transformations:

- RGB => YCbCr
- RGB => GRAYSCALE
- YCbCr => GRAYSCALE
- CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninveted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.

* Trace/informational messages. These come with a trace level indicating
  the importance of the message; you can control the verbosity of the
  program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need.
This is accomplished by calling jpeg_std_error() as usual, but then overriding
some of the method pointers in the jpeg_error_mgr struct, as illustrated by
example.c.

All of the error handling routines will receive a pointer to the JPEG object
(a j_common_ptr which points to either a jpeg_compress_struct or a
jpeg_decompress_struct; if you need to tell which, test the is_decompressor
field). This struct includes a pointer to the error manager struct in its
"err" field. Frequently, custom error handler routines will need to access
additional data which is not known to the JPEG library or the standard error
handler. The most convenient way to do this is to embed either the JPEG
object or the jpeg_error_mgr struct in a larger structure that contains
additional fields; then casting the passed pointer provides access to the
additional fields. Again, see example.c for one way to do it. (Beginning
with IJG version 6b, there is also a void pointer "client_data" in each
JPEG object, which the application can also use to find related data.
The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message
language.
emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table. The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
err->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...)for fatal errors
WARNMSn(...)for corrupt-data warnings
TRACEMSn(...)for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination
manager" module. The default destination manager just writes the data to a
memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source
manager" to obtain the compressed data; you can provide your own source
manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is
desired (this operating mode is discussed in the next section).

**term_destination (j_compress_ptr cinfo)**

Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

**init_source (j_decompress_ptr cinfo)**

Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

**fill_input_buffer (j_decompress_ptr cinfo)**

This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value.
if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential
for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point,
which is where the decompressor will backtrack if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above.
Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It’s much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
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Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a
suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or
multi-scan sequential.) This makes multi-scan files transparent to the
decoding application. However, existing applications that used suspending
input with version 5 of the IJG library will need to be modified to check
for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's
buffered-image mode. This is described in the next section.

Buffered-image mode
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In buffered-image mode, the library stores the partially decoded image in a
coefficient buffer, from which it can be read out as many times as desired.
This mode is typically used for incremental display of progressive JPEG files,
but it can be used with any JPEG file. Each scan of a progressive JPEG file
adds more data (more detail) to the buffered image. The application can
display in lockstep with the source file (one display pass per input scan),
or it can allow input processing to outrun display processing. By making
input and display processing run independently, it is possible for the
application to adapt progressive display to a wide range of data transmission
rates.

The basic control flow for buffered-image decoding is

jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional
level of looping. The application can choose how many output passes to make
and how to display each pass.

The simplest approach to displaying progressive images is to do one display
pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:
JPEG_REACHED_SOS:    reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI:    reached the EOI marker (end of image)
JPEG_ROW_COMPLETED:  completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED:      suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under “I/O suspension”, above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)
When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

do {
   absorb any waiting input by calling jpeg_consume_input()
   final_pass = jpeg_input_complete(&cinfo);
   adjust output decompression parameters if required
   jpeg_start_output(&cinfo, cinfo.input_scan_number);
   ...
   jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

for (;;) {
   absorb any waiting input by calling jpeg_consume_input()
   jpeg_start_output(&cinfo, cinfo.input_scan_number);
   ...
   jpeg_finish_output()
   if (jpeg_input_complete(&cinfo) &&
       cinfo.input_scan_number == cinfo.output_scan_number)
       break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.
When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
  * jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
  * jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
  * jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
  * jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend.
In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube. Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap. Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image. Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL. (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.
IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant: Fixed color cube colormap
- enable_external_quant: Externally-supplied colormap
- enable_2pass_quant: Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.
Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (i.e., if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
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A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization
and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.

* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.

* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress()
will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
cjpeg_start_compress(&cinfo, FALSE);
write data...
cjpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

if (cinfo.quant_tbl_ptrs[n] == NULL)
cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
  /* Qtable[] is desired quantization table, in natural array order */
  quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
  /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
  huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
  /* symbols[] is the list of Huffman symbols, in code-length order */
  huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)
Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit) where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)
Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
------------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space =
in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the
The required dimensions of the supplied data can be computed for each component as
\[ cinfo->comp_info[i].width_in_blocks*DCTSIZE \] samples per row
\[ cinfo->comp_info[i].height_in_blocks*DCTSIZE \] rows in image
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is
\[ cinfo->comp_info[0].h_samp_factor = 2 \] for Y
\[ cinfo->comp_info[0].v_samp_factor = 2 \]
\[ cinfo->comp_info[1].h_samp_factor = 1 \] for Cb
\[ cinfo->comp_info[1].v_samp_factor = 1 \]
\[ cinfo->comp_info[2].h_samp_factor = 1 \] for Cr
\[ cinfo->comp_info[2].v_samp_factor = 1 \]

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute \[ \text{downsampled_width} = 101 \] and \[ \text{width_in_blocks} = 13 \] for Y, \[ \text{downsampled_width} = 51 \] and \[ \text{width_in_blocks} = 7 \] for Cb and Cr (and the same for the height fields). You must pad the Y data to at least \[ 13*8 = 104 \] columns and rows, the Cb/Cr data to at least \[ 7*8 = 56 \] columns and rows. The MCU height is \[ \text{max_v_samp_factor} = 2 \] DCT rows so you must pass at least \[ 16 \] scanlines on each call to jpeg_write_raw_data(), which is to say \[ 16 \] actual sample rows of Y and \[ 8 \] each of Cb and Cr. A total of \[ 7 \] MCU rows are needed, so you must pass a total of \[ 7*16 = 112 \] “scanlines”. The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to \[ 112 \] so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle.
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle
state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This framework might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

- Create compression object
- Set all compression parameters as necessary
- Request virtual arrays if needed
- jpeg_write_coefficients()
- jpeg_finish_compress()
- Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().
jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
int total_passes; /* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as

\[
\text{completed_passes} + \left( \frac{\text{pass_counter}}{\text{pass_limit}} \right)
\]

--------------------------------------------

\text{total_passes}

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

\[
\text{ptr} = (*\text{cinfo->mem->alloc_small}) ((j\text{_common_ptr}) \text{cinfo}, \text{JPOOL\_IMAGE}, \text{size});
\]

Use JPOOL\_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library’s minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and
JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coeficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
-----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define
BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be
larger than a char, so it affects the surrounding application's image data.
The sample applications cjpeg and djpeg can support 12-bit mode only for PPM
and GIF file formats; you must disable the other file formats to compile a
12-bit cjpeg or djpeg. (install.txt has more information about that.)
At present, a 12-bit library can handle *only* 12-bit images, not both
precisions. (If you need to include both 8- and 12-bit libraries in a single
application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES
for just one of the copies. You'd have to access the 8-bit and 12-bit copies
from separate application source files. This is untested ... if you try it,
we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode,
in order to generate valid Huffman tables. This is necessary because our
default Huffman tables only cover 8-bit data. If you need to output 12-bit
files in one pass, you'll have to supply suitable default Huffman tables.
You may also want to supply your own DCT quantization tables; the existing
quality-scaling code has been developed for 8-bit use, and probably doesn't
generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined
by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we
expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve
performance or reduce memory space by tweaking the various typedefs in
jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s
is quite slow; consider trading memory for speed by making JCOEF, INT16, and
UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make JSAMPLE be int unless you have lots of memory
to burn.

You can reduce the size of the library by compiling out various optional
functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library;
the standard error message table occupies about 5Kb. This is particularly
reasonable for embedded applications where there's no good way to display
a message anyway. To do this, remove the creation of the message table
(jpeg_std_message_table[]) from jerror.c, and alter format_message to do
something reasonable without it. You could output the numeric value of the
message code number, for example. If you do this, you can also save a couple
more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing;
you don't need trace capability anyway, right?

Portability considerations
--------------------------
The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that:
- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.
More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1-2-90-
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 *
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009, 2011-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jdcolor.c

No license file was found, but licenses were detected in source scan.

/*
 * jidctred.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
 * algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
 * with an 8-to-4 step that produces the four averages of two adjacent outputs
 * (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 * These steps were derived by computing the corresponding values at the end
 * of the normal LL&M code, then simplifying as much as possible.
 *
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 *
 * See jidctint.c for additional comments.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jidctred.c
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/*
 * jccolor.c
 *
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 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jccolor.c

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/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
 * the caller will create dummy rows at image top and bottom by replicating
 * the first or last real pixel row.
 *
 * An excellent reference for image resampling is

* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jccoefct.c
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; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elf RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jcolsamp.inc

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/*
 * rdbmp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdbmp.c

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/*
 * jcmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write JPEG datastream markers.
*

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcmarker.c
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/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrppm.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100
image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.
These images are (c) their respective owners. You are granted full redistribution and publication rights on these images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here. That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
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/ *
* jdatasrc-tj.c
*  *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*  *
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdout stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

*/
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*
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* modification, are permitted provided that the following conditions are met:
* *
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* - Redistributions in binary form must reproduce the above copyright notice,
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* and/or other materials provided with the distribution.
* - Neither the name of the libjpeg-turbo Project nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
* *
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* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpeg turbo/turbojpeg/TJ.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpeg turbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpeg turbo/turbojpeg/TJDecompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/org/libjpeg turbo/turbojpeg/TJCompressor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/turbojpeg-jni.c
No license file was found, but licenses were detected in source scan.

/*
* jdpostct.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
  quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* jcdctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jccolext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.

TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpeg turbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.
Installation Directory

----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.
; Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:
; 1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
; [TAB8]

; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
; Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --

;ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
endif

elseifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --

;ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
endif
%define EXTN(name) name			; foo() -> foo

elseifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)----------
; * Borland C++ (Win32)

; -- segment definition --

;ifdefine SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

elseifdef ELF; ----(nasm -felf[64] -DELF ...)-------------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --

;ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name			; foo() -> foo

%elifdef AOUT; ----(nasm -faout/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ----------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER qword ; general pointer type
%define SIZEOF_POINTER SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT QWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER dword ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD ; sizeof(POINTER)
%define POINTER_BIT DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT dword ; signed integer type
%define SIZEOF_INT SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32 dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD qword ; int64 (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT QWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; --------------------------------------------------------------------------
%ifndef EXTN
%define EXTN(name)   _ %+ name		; foo() -> _foo
%endif

%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC
; -------------------------------------------
%ifidn GOT_SYMBOL,_MACHO_PIC_ ; -------------------

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx resister.
call %%geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%%geteip:
mov ecx, POINTER [esp]
ret
%%adjust:
pushebp
xorebp,ebp; ebp = 0
%ifidni %1,ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmplnear const_base; E9,(const_base-%%ref)
%%ref:
%else  ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmplnear const_base; E9,(const_base-%%ref)
%%ref:mov%1, ecx
%endif; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ ---------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT
extern GOT_SYMBOL
call%%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%%geteip:
mov%1, POINTER [esp]
ret
%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC -------------------------------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC -------------------------------------

; ---------------------------------------------------------------------
; Align the next instruction on {2,4,8,16...}-byte boundary.
%define MSKLE(x,y) (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n) (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs:
  times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \ 
    db 0x90 ; nop
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \ 
    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \ 
    db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \ 
    db 0x8D,0xAD,0x00,0x00 ; lea ebp,[ebp+0x00000000]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \ 
    db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x0]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \ 
    db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x0]
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \ 
    db 0x8B,0xED ; mov ebp,ebp
  times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \ 
    db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub    rsp, SIZEOF_XMMWORD

%endif WIN64
movaps  XMMWORD [rsp], xmm6
sub     rsp, SIZEOF_XMMWORD
movaps  XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps  xmm7, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
movaps  xmm6, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif
Source code information for the libraries:

- **jcarith.c**
  * Developed 1997-2009 by Guido Vollbeding.
  * This file is part of the Independent JPEG Group's software.
  * This file contains portable arithmetic entropy encoding routines for JPEG
  * Both sequential and progressive modes are supported in this single module.
  * Suspension is not currently supported in this module.

- **cdjpeg.c**
  * Copyright (C) 1991-1997, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * This file contains common support routines used by the IJG application
  * programs (cjpeg, djpeg, jpegtran).
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-
  turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains Huffman entropy decoding routines.
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar-gz/libjpeg-
  turbo-1.2.90/jdhuff.c
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C)2011 D. R. Commander. All Rights Reserved.
 *
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 * modification, are permitted provided that the following conditions are met:
 *
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 *   this list of conditions and the following disclaimer.
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 *   this list of conditions and the following disclaimer in the documentation
 *   and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 *   contributors may be used to endorse or promote products derived from this
 *   software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
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* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/tjutil.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/bmp.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jctest.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/bmp.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/tjutil.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java

No license file was found, but licenses were detected in source scan.

/*
* jquant2.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* 
* Modifications:
* Copyright (C) 2009, D. R. Commander.
* 
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* 
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
* cjpeg.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options]  inputfile outputfile
* cjpeg [options]  [inputfile] 
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn’t do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options]  -outfile outputfile  inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.
This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.
Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
  [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented
as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatastd.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.
*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
              |                  |
------------------- controller -------------------
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control
module and its pair of processing-step modules with a single processing-
step module. (Hence the possible merges are determined by the tree of
control modules.)

* In some processing modes, a given interstep buffer need only be a "strip"
  buffer large enough to accommodate the desired data chunk sizes. In other
modes, a full-image buffer is needed and several passes are required.
The control module determines which kind of buffer is used and manipulates
virtual array buffers as needed. One or both processing steps may be
unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers
interchangeable and provide just one set of implementations for all. In
practice, each one contains considerable special-case processing for its
particular job. The buffer controller concept should be regarded as an
overall system structuring principle, not as a complete description of the
task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
  |-- Preprocessing controller -->
    |                         |-- Downsampling
Main controller -->
    |                     |-- Forward DCT, quantize
    |                   |-- Coefficient controller -->
    |                         |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during
typical image data processing. Each of the components shown in the diagram is
an "object" which may have several different implementations available. One
or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which
  holds the preprocessed input data. This controller invokes preprocessing to
  fill the subsampled-data buffer, and JPEG compression to empty it. There is
  usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data
  buffer, which lies between colorspace conversion and downsampling. Note
  that a unified conversion/downsampling module would probably replace this
  controller entirely.

* Colorspace conversion: converts application image data into the desired
JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own
destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object’s methods to change error handling.

* Progress monitor: supports output of "percent-done” progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
   |-- Coefficient controller --|
       |-- Dequantize, Inverse DCT
Main controller --|
   |-- Upsampling
   |-- Postprocessing controller --|   |-- Colorspace conversion
       |-- Color quantization
       |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller’s primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.
* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in
practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.
For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPARRAY *JSAMPROW; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is
used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big
enough on all machines of interest, on some machines it is preferable to use
"int" for speed reasons, despite the storage cost. Coefficients are grouped
into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than
"8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged
order, and may be true values or divided by the quantization coefficients,
depending on where the block is in the processing pipeline. In the current
library, coefficient blocks are kept in natural order everywhere; the entropy
codes zigzag or dezigzag the data as it is written or read. The blocks
contain quantized coefficients everywhere outside the DCT/IDCT subsystems.
(This latter decision may need to be revisited to support variable
quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to
eight rows of samples. Otherwise the structure is much the same as for
samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data
structure limits us to rows of less than 512 JBLOCKs, or a picture width of
4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW)
must be declared as "far" pointers, but the upper levels can be "near"
(implying that the pointer lists are allocated in the DS segment).
We use a #define symbol FAR, which expands to the "far" keyword when
compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an
incremental, memory-to-memory filter. In this situation the data source or
destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (i.e., the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary
point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we
distinguish them for two reasons:
* On MS-DOS machines, large objects are referenced by FAR pointers,
  small objects by NEAR pointers.
* Pool allocation heuristics may differ for large and small objects.
  Note that individual "large" objects cannot exceed the size allowed by
  type size_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs
   (typically large enough for the entire image being processed). The
   memory manager provides stripwise access to these arrays. On machines
   without virtual memory, the rest of the array may be swapped out to a
   temporary file.

   (Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large
   objects for the data proper and small objects for the row pointers. For
   convenience and speed, the memory manager provides single routines to create
   these structures. Similarly, virtual arrays include a small control block
   and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image
lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is
not very useful since a virtual array's raison d'etre is to store data for
multiple passes through the image.) We also expect that only "small" objects
will be given permanent lifespan, though this restriction is not required by
the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by
making the in-memory buffers for virtual arrays be as large as possible.
(For small images, the buffers might fit entirely in memory, so blind
swapping would be very wasteful.) The memory manager will adjust the height
of the buffers to fit within a prespecified maximum memory usage. In order
to do this in a reasonably optimal fashion, the manager needs to allocate all
of the virtual arrays at once. Therefore, there isn't a one-step allocation
routine for virtual arrays; instead, there is a "request" routine that simply
allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The
realize routine must allow for space occupied by non-virtual large objects.
(We don't bother to factor in the space needed for small objects, on the
grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business
with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan)
   during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be
   allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that sufficient information is available
   for it to choose a good size for virtual array buffers.
Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the \texttt{realize_virt\_arrays} computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing \texttt{realize\_virt\_arrays} to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in \texttt{jdc\_coef\_ct.c} for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (\texttt{jmemmgr.c}) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

\begin{itemize}
\item \texttt{jpeg\_mem\_init, jpeg\_mem\_term} system-dependent initialization/shutdown
\item \texttt{jpeg\_get\_small, jpeg\_free\_small} interface to malloc and free library routines (or their equivalents)
\item \texttt{jpeg\_get\_large, jpeg\_free\_large} interface to FAR malloc/free in MSDOS machines; else usually the same as \texttt{jpeg\_get\_small/jpeg\_free\_small}
\item \texttt{jpeg\_mem\_available} estimate available memory
\item \texttt{jpeg\_open\_backing\_store} create a backing-store object
\end{itemize}
readBackingStore, manipulate a backing-store object
writeBackingStore,
closeBackingStore

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpegOpenBackingStore is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image
descriptor.
This implies that control modules must avoid making copies of the image
height, and must re-test for termination after each MCU row. This would
be easy enough to do.

In cases where image-size data structures are allocated, this approach will
result in very inefficient use of virtual memory or much-larger-than-necessary
temporary files. This seems acceptable for something that probably won't be a
mainstream usage. People might have to forgo use of memory-hogging options
(such as two-pass color quantization or noninterleaved JPEG files) if they
want efficient conversion of such files. (One could improve efficiency by
demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

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 *
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 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user

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* interfaces.
*/

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* 
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

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* 
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
* 
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
* 
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
is based directly on figure 4-8 in P&M.
While an 8-point DCT cannot be done in less than 11 multiplies, it is
possible to arrange the computation so that many of the multiplies are
simple scalings of the final outputs. These multiplies can then be
folded into the multiplications or divisions by the JPEG quantization
table entries. The AA&N method leaves only 5 multiplies and 29 adds
to be done in the DCT itself.
The primary disadvantage of this method is that with a fixed-point
implementation, accuracy is lost due to imprecise representation of the
scaled quantization values. However, that problem does not arise if
we use floating point arithmetic.

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This file contains routines to decode JPEG datastream markers.
Most of the complexity arises from our desire to support input
suspension: if not all of the data for a marker is available,
we must exit back to the application. On resumption, we reprocess
the marker.

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This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

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 * wrgif.c
 *
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 *
 * This file contains routines to write output images in GIF format.
 *
****************************************************************************************

* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.       *
* There is no trace of the LZW algorithm in this file.             *
****************************************************************************************

* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/*

* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
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* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S

No license file was found, but licenses were detected in source scan.

/ *
* jcprecept.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
This file contains the compression preprocessing controller.
This controller manages the color conversion, downsampling,
and edge expansion steps.

Most of the complexity here is associated with buffering input rows
as required by the downsampler. See the comments at the head of
jcsample.c for the downsampler's needs.

/*

*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jcprepct.c
No license file was found, but licenses were detected in source scan.

/ *
* jdatadst-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

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* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in
No license file was found, but licenses were detected in source scan.

/*
 * jdcolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrrle.c
No license file was found, but licenses were detected in source scan.

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/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES
/* Does your compiler support the declaration "unsigned char"? */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc(). */
#define void char *

/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
#define const

/* Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
 * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal. */
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file. */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>. */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead. */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.) */
#undef NEED_FAR_POINTERS
/* Define this if your linker needs global names to be unique in less
* than the first 15 characters. */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code. */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#ifdef _WIN32
#ifndef __RPCNDR_H__	/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN	/* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined. */
#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition. */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these. */
**jmorecfg.h**

This file was part of the Independent JPEG Group's software:

```
/*
  * These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBM/PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
#undef PROGRESS_REPORT
```

```
#endif /* JPEG_CJPEG_DJPEG */
```

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-libjpeg-turbo-1.2.90jconfig.txt

No license file was found, but licenses were detected in source scan.

```
/*
 * jmorecfg.h
 *
 * This file was part of the Independent JPEG Group's software:
```
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jmorecfg.h

No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 *   each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */
Open Source Used In Cisco Emergency Responder 14Su1 MFG 12695

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdcolmap.c

No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdhuff.h

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 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
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* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/java/TJBench.java
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/tjbench.c
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/turbojpeg.c

No license file was found, but licenses were detected in source scan.

*/
* jdmrgext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains code for merged upsampling/color conversion.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jdmrgext.c

No license file was found, but licenses were detected in source scan.

*/
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* *
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
* jsimd_x86_64.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/simd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* */
/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 *
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */

/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */

/*
 * jQuery UI 1.7.2
 *
 * Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
 */
* Dual licensed under the MIT (MIT-LICENSE.txt) and GPL (GPL-LICENSE.txt) licenses.

* http://docs.jquery.com/UI

/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - a.flesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy decoding routines for JPEG
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
* 
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* jcapi min.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
* 
* Most of the routines intended to be called directly by an application
* are in this file or in jcapi std.c. But also see jeparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
* jddctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
This file contains the inverse-DCT management logic. This code selects a particular IDCT implementation to be used, and it performs related housekeeping chores. No code in this file is executed per IDCT step, only during output pass setup.

Note that the IDCT routines are responsible for performing coefficient dequantization as well as the IDCT proper. This module sets up the dequantization multiplier table needed by the IDCT routine.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/jpegcomp.h

Copyright (C) 2010, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.

JPEG compatibility macros
* These declarations are considered internal to the JPEG library; most applications using the library shouldn't need to include this file.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jpegcomp.h

No license file was found, but licenses were detected in source scan.

/jctrans.c

Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

This file contains library routines for transcoding compression, that is, writing raw DCT coefficient arrays to an output JPEG file. The routines in jcapimin.c will also be needed by a transcoder.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar.gz/libjpeg-turbo-1.2.90/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (j dctmgr.c, j dctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jdct.h

No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90.tar.gz/libjpeg-turbo-1.2.90/jdatasrc.c

No license file was found, but licenses were detected in source scan.

/*
 * jsimd_arm.c
 */
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_arm.c

No license file was found, but licenses were detected in source scan.

/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdphuff.c

No license file was found, but licenses were detected in source scan.

******************************************************************************
**     Background
******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64,
and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as
libjpeg, all else being equal. On other types of systems, libjpeg-turbo can
still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS", AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE...
libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

=================================
Installation Directory
=================================

This document assumes that libjpeg-turbo will be installed in the default directory /opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo\[-gcc]\[64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

=================================
Replacing libjpeg at Run Time
=================================

Un*x

----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:
[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.392s
user  0m0.074s
sys  0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys  0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses
jpeg7.dll or jpeg8.dll instead, then it will be necessary to build
libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary
packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll).
msvcr90.dll ships with more recent versions of Windows, but users of older
Windows releases can obtain it from the Visual C++ 2008 Redistributable
Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure,
such as a file handle, from an application to the library will probably not
work with jpeg62.dll, unless the application is also built to use the Visual
C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and
jpeg_stdio_src().

Mac
Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================
Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/[lib] to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command
To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

====================
Colorspace Extensions
====================

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

JCS_EXT_RGB /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
JCS_EXT_ABGR /* alpha/blue/green/red */
JCS_EXT_ARGB /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

#ifdef JCS_EXTENSIONS

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants
are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#define JCS_ALPHA_EXTENSIONS
```

jctest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================

libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding
-- libjpeg: In-memory source and destination managers
   See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
   Note that the libjpeg v7+ API was extended to accommodate this feature only
   for convenience purposes. It has always been possible to implement this
   feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the
usefulness of DCT scaling as a means of data reduction and SmartScale as a
means of quality improvement. The reader is invited to peruse the research at
http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not
demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
   cinfo.scale_num and cinfo.scale_denom are silently ignored.
   There is no technical reason why DCT scaling could not be supported when
   emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
   below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
   8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
   cinfo.block_size is silently ignored.
   SmartScale is an extension to the JPEG format that allows for DCT block
   sizes other than 8x8. Providing support for this new format would be
   feasible (particularly without full acceleration.) However, until/unless
   the format becomes either an official industry standard or, at minimum, an
   accepted solution in the community, we are hesitant to implement it, as
   there is no sense of whether or how it might change in the future. It is
   our belief that SmartScale has not demonstrated sufficient usefulness as a
lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

In-Memory Source/Destination Managers

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg
v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
**     Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also
because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
** Performance Pitfalls
*******************************************************************************

===================
Restart Markers
===================

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

=================================
Fast Integer Forward DCT at High Quality Levels
=================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/README-turbo.txt
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
This file contains common declarations for the sample applications cjpeg and djpeg. It is NOT used by the core JPEG library.

*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/cdjpeg.h
No license file was found, but licenses were detected in source scan.

j SIMD I386.C

* Copyright 2009 Pierre Ossman ossman@cendio.se for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
* /

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

rdgif.c

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
******************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                           *
******************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/rdgif.c

No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmaker.c, jdnhuff.c, and jdphuff.c.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jdinput.c

No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEEE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project
to include only information relevant to libjpeg-turbo, to wordsmith certain
sections, and to remove impolitic language that existed in the libjpeg v8
README. It is included only for reference. Please see README-turbo.txt for
information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
==========================================

This distribution contains a release of the Independent JPEG Group's free JPEG
software. You are welcome to redistribute this software and to use it for any
purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS  Software *not* to get.
TO DO        Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt  How to configure and install the IJG software.
usage.txt    Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1          Unix-style man pages for programs (same info as usage.txt).
wizard.txt   Advanced usage instructions for JPEG wizards only.
change.log   Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt  How to use the JPEG library in your own programs.
example.c    Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
==============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.iijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision
1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free
download in PDF format from
A PostScript version of the JFIF document is available at
http://www.iijg.org/files/jfif.ps.gz. There is also a plain text version at
http://www.iijg.org/files/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
http://www.iijg.org/files/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
=================

The “official” archive site for this software is www.iijg.org.
The most recent released version can always be found there in
directory "files". This particular version will be archived as
http://www.iijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible
"zip" archive format as http://www.iijg.org/files/jpegsr8d.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.
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
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS
=================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together
with ITU-T SG16) currently promotes different formats containing the name
"JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does
not support these formats (see REFERENCES). Indeed, one of the original
reasons for developing this free software was to help force convergence on
common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * jcparam.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

%ifarch x86_64
  %define __lib lib64
%else
  %define __lib lib
%endif

Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries

#--->Source0: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style

BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
  Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
  Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif

Obsoletes: turbojpeg

%description

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
#-->%prep
#-->%setup -q

#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#--> make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/usr/include
mv $RPM_BUILD_ROOT/opt/%{name}/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs /usr/include/turbojpeg.h $RPM_BUILD_ROOT/opt/%{name}/include/
ln -fs /usr/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT%{_defaultdocdir}
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT%{_defaultdocdir}/%{name}-%{version}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig
%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}
%doc %{_defaultdocdir}/%{name}-%{version}/
%dir /opt/%{name}/
%dir /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}/
%ifarch x86_64
%else
Open Source Used In Cisco Emergency Responder 14Su1 MFG 12726

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in

No license file was found, but licenses were detected in source scan.

/
* to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
turbo-1.2.90/jcphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options]  inputfile outputfile
 * djpeg [options]  [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djpeg [options]  -outfile outputfile  inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2-90-tgz/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; -----------------------------------------------

No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */
1.2.90 (1.3 beta1)
==================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified
[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and
it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.
[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
==================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support
NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.
[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)
[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)

--------------

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1

=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance,
from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
=====

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
=====

[1] Added documentation to .deb packages
[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
========

Initial release

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimd_none.c

No license file was found, but licenses were detected in source scan.

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#
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#
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#   this list of conditions and the following disclaimer.
# - Redistributions in binary form must reproduce the above copyright notice,
#   this list of conditions and the following disclaimer in the documentation
#   and/or other materials provided with the distribution.
# - Neither the name of the libjpeg-turbo Project nor the names of its
#   contributors may be used to endorse or promote products derived from this
#   software without specific prior written permission.
#
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# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
# INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
# CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
# POSSIBILITY OF SUCH DAMAGE.

#!/bin/sh
if [ ! ""id -u"" = ""0"" ]; then
echo "ERROR: This script must be executed as root"
exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg
LSBOM=
if [ -d $RECEIPT ]; then
  LSBOM=`lsbom -s -f -l "$RECEIPT'/Contents/Archive.bom'
else
  LSBOM=`pkgutil --files "$MACPACKAGE
fi
mylsbom()
{
    $LSBOM || (echo "ERROR: Could not list package contents"); exit -1
}

echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
    if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
    rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
    rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
    rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
    rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
    rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
    rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [ -d $RECEIPT ]; then
    echo Removing package receipt ...
    rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
    echo Forgetting package $MACPACKAGE ...
pkgutil --forget $MACPACKAGE
fi

exit $EXITSTATUS

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/release/uninstall.in

No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jaricom.c

No license file was found, but licenses were detected in source scan.
/*
 * jpegtran.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1.2.90-tgz/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 * *
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):
/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jdmainct.c

No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jerror.c
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/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1.2.90/jcapistd.c

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IJG JPEG LIBRARY: CODING RULES

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Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro METHOD, defined as
#ifdef HAVE_PROTOTYPES
#define METHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define METHOD(type,methodname,arglist)  type (*methodname) ()
#endif

which is used like this:
struct function_pointers {
    METHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    METHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).
If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-
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/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90/jmemnobs.c

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/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
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 *
 */

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/*
 * jmemmgr.c
 *
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 */
This file contains the JPEG system-independent memory management routines. This code is usable across a wide variety of machines; most of the system dependencies have been isolated in a separate file. The major functions provided here are:

- pool-based allocation and freeing of memory;
- policy decisions about how to divide available memory among the virtual arrays;
- control logic for swapping virtual arrays between main memory and backing storage.

The separate system-dependent file provides the actual backing-storage access code, and it contains the policy decision about how much total main memory to use.

This file is system-dependent in the sense that some of its functions are unnecessary in some systems. For example, if there is enough virtual memory so that backing storage will never be used, much of the virtual array control logic could be removed. (Of course, if you have that much memory then you shouldn't care about a little bit of unused code...) 

This file contains a very simple stand-alone application that displays the text in COM (comment) markers in a JFIF file. This may be useful as an example of the minimum logic needed to parse JPEG markers.

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This file contains a very simple stand-alone application that displays the text in COM (comment) markers in a JFIF file. This may be useful as an example of the minimum logic needed to parse JPEG markers.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/jidctfst.c
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/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of the 8x8 input DCT block and apply an NxN point IDCT on the sub-block to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain point of view rather than the usual spatial domain point of view, yielding significant computational savings and results at least as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90/tar-gz/libjpeg-turbo-1.2.90/jidctint.c
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/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP" format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1125758154_1612167959.68/0/libjpeg-turbo-1-2-90-tgz/libjpeg-turbo-1-2-90-tar-gz/libjpeg-turbo-1.2.90/wrbmp.c
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/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPLUS library, which is:
***
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* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
  jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-

jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135953616_1613641211.06/0/javassist-3-20-0-ga-sources-5-
jar/javassist/bytecode/annotation/StringMemberValue.java

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1.1182 commons-logging 1.2

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9.jar/org/apache/commons/logging/impl/ServletContextCleaner.java

1.1183 commons-beanutils 1.6

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* $Date: 2003/01/15 21:59:38 $
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1.1184 zlib 1.2.7-18.el7
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1.1185 thrift 0.10.0

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compiler/cpp/Makefile.am
compiler/cpp/src/generate/t_cocoa_generator.cc
compiler/cpp/src/generate/t_cpp_generator.cc
compiler/cpp/src/generate/t_csharp_generator.cc
compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TTtype.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

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L. Peter Deutsch
ghost@aladdin.com
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lib/ocaml/OCamlMakefile and lib/ocaml/README-OCamlMakefile components:
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1.1189 txw2 20110809
1.1190 util-linux 2.23.2 63.el7

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 */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
Device Boot  Start  End  Blocks  Id  System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
__ts_dev__1  2048  4095  1024  83  Linux
-------------------
Create 2st primary partition
1bebf87248e05d6e4e626749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout-------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
__ts_dev__1  2048  4095  1024  83  Linux
__ts_dev__2  4096  20479  8192  a5  FreeBSD
-------------------
Create default BSD
2e1cee529cb59e9341afef0443f196a1 bsd.img

---layout-------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsi size bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0 0 0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):
Command (m for help):

----------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fsi size bsize cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0 0 0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):
Command (m for help):

----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

<table>
<thead>
<tr>
<th>0</th>
<th>unused</th>
<th>5</th>
<th>4.1BSD</th>
<th>9</th>
<th>4.4LFS</th>
<th>d</th>
<th>boot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
<td>a</td>
<td>unknown</td>
<td>e</td>
<td>ADOS</td>
</tr>
<tr>
<td>2</td>
<td>Version 6</td>
<td>7</td>
<td>4.2BSD</td>
<td>b</td>
<td>HPFS</td>
<td>f</td>
<td>HFS</td>
</tr>
<tr>
<td>3</td>
<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
<td>c</td>
<td>ISO-9660</td>
<td>10</td>
<td>AdvFS</td>
</tr>
<tr>
<td>4</td>
<td>System V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BSD disklabel command (m for help):
1.1191 xml-parser 1.0.0

1.1191.1 Available under license:

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 *
 * This file is part of XmlParser.
 *
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 *
 */

/**
 * An exception class that is thrown as wrapped exception on instantiation of
 * [ResourceResolver} and [XmlParser} if some exception occurs
 *
 * @author noctarius
 * @since 0.0.1
 *
 */

1.1192 at-spi2-core 2.28.0 1.el7

1.1193 libffi 3.0.13 19.el7

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1.1194 open-csv 2.0

1.1195 xnio-api 3.8.0.Final

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  jar/org/xnio/BrokenPipeException.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-
  jar/org/xnio/channels/PushBackStreamChannel.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/streams/BufferedChannelInputStream.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/streams/LimitedInputStream.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ByteBufferSlicePool.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/SocketAddressBuffer.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/LocalSocketAddress.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/streams/LimitedOutputStream.java

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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/Sequence.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/sasl/SaslStrength.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/BlockingReadableByteChannel.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/BlockingByteChannel.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ChannelListener.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ByteString.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/CloseableChannel.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/conduits/SynchronizedMessageSourceConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/StreamConnection.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/conduits/package-info.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/conduits/SourceConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/conduits/WriteReadyHandler.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/ssl/SslConnection.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/conduits/Conduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/conduits/PushBackStreamSourceConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/sasl/SaslWrappingConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/conduits/ConduitReadableByteChannel.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/http/HttpUpgradeParser.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/conduits/SinkConduit.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/conduits/ConduitStreamSourceChannel.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1.jar/org/xnio/channels/CloseListenerSettable.java
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/**
 * A QOP value specifying authentication plus integrity and confidentiality protection.
 */

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  jar/org/xnio/ssl/JsseSslConduitEngine.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ssl/XnioSsl.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ssl/JsseXnioSsl.java

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  jar/org/xnio/channels/SplitStreamSourceChannel.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/ChannelListeners.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/SequenceOption.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/XnioExecutor.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/java/nio/channels/FileChannel.java
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* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/UnsupportedOptionException.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/channels/StreamSourceChannel.java
* /opt/cola/permits/1136045107_1613664996.44/0/xnio-api-3-8-0-final-sources-1-jar/org/xnio/Buffers.java
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1.1201 j2objc-annotations 1.3

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Ty Coon, President of Vice

That's all there is to it!
Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver
Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
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for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

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for his work on the budget drivers, the demux code,
the module unloading problems, ...

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TechnoTrend/Hauppauge DEC driver firmware
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for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkruufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
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1.1207 wstx-asl 3.2.4

1.1208 zlib 1.2.11

1.1208.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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   */

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1.1209 diffutils 3.3 5.el7
1.1209.1 Available under license:
/* diff - compare files line by line


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#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS \
   proper_name ("Paul Eggert"), \ 
   proper_name ("Mike Haertel"), \ 
   proper_name ("David Hayes"), \ 
   proper_name ("Richard Stallman"), \ 
   proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
   char *regexps;/* chars representing disjunction of the regexps */
   size_t len;/* chars used in 'regexps' */
   size_t size;/* size malloc'ed for 'regexps'; 0 if not malloc'ed */
   bool multiple_regexps;/* Does 'regexps' represent a disjunction? */
   struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary).
   On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
   Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =

/* Values for long options that do not have single-letter equivalents. */
enum
{
  BINARY_OPTION = CHAR_MAX + 1,
  FROM_FILE_OPTION,
  HELP_OPTION,
  HORIZON_LINES_OPTION,
  IGNORE_FILE_NAME_CASE_OPTION,
  INHIBIT_HUNK_MERGE_OPTION,
  LEFT_COLUMN_OPTION,
  LINE_FORMAT_OPTION,
  NO_DEREFERENCE_OPTION,
  NO_IGNORE_FILE_NAME_CASE_OPTION,
  NORMAL_OPTION,
  SDIFF_MERGE_ASSIST_OPTION,
  STRIP_TRAILING_CR_OPTION,
  SUPPRESS_BLANK_EMPTY_OPTION,
  SUPPRESS_COMMON_LINES_OPTION,
  TABSIZE_OPTION,
  TO_FILE_OPTION,
}
/* These options must be in sequence. */
UNCHANGED_LINE_FORMAT_OPTION,
OLD_LINE_FORMAT_OPTION,
NEW_LINE_FORMAT_OPTION,

/* These options must be in sequence. */
UNCHANGED_GROUP_FORMAT_OPTION,
OLD_GROUP_FORMAT_OPTION,
NEW_GROUP_FORMAT_OPTION,
CHANGED_GROUP_FORMAT_OPTION
);

static char const group_format_option[][
    sizeof "--unchanged-group-format"] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[][
    sizeof "--unchanged-line-format"] =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] =
{
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
    {"context", 2, 0, 'C'},
    {"ed", 0, 0, 'e'},
    {"exclude", 1, 0, 'x'},
    {"exclude-from", 1, 0, 'X'},
    {"expand-tabs", 0, 0, 't'},
    {"forward-ed", 0, 0, 'f'},
    {"from-file", 1, 0, FROM_FILE_OPTION},
    {"help", 0, 0, HELP_OPTION},
    {"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
    {"ifdef", 1, 0, 'D'},
    {"ignore-all-space", 0, 0, 'w'},
    {"ignore-blank-lines", 0, 0, 'B'},
    {"ignore-case", 0, 0, 'i'},
    {"ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION},
    {"ignore-matching-lines", 1, 0, 'T'},
    {"ignore-space-change", 0, 0, 'b'},
/* Return a string containing the command options with which diff was invoked.
   Spaces appear between what were separate ARGV-elements.
   There is a space at the beginning but none at the end.
   If there were no options, the result is an empty string.

   Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT,
   the length of that vector. */
static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

    for (i = 0; i < count; i++)
        size += 1 + shell_quote_length (optionvec[i]);

    p = result = xmalloc (size);

    for (i = 0; i < count; i++)
        {
            *p++ = ' ';
            p = shell_quote_copy (p, optionvec[i]);
        }

    *p = '\0';
    return result;
}

/* Return an option value suitable for add_exclude. */

static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    lin ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;
/* Do our initializations. */
exit_failure = EXIT_TROUBLE;
initialize_main (&argc, &argv);
set_program_name (argv[0]);
setlocale (LC_ALL, "");
bindtexdomain (PACKAGE, LOCALEDIR);
textdomain (PACKAGE);
c_stack_action (0);
function_regexp_list.buf = &function_regexp;
ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude ();

/* Decode the options. */
while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
    {
    case 0:
        break;
    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if (LIN_MAX / 10 < ocontext || ((ocontext = 10 * ocontext + c - '0') < 0))
            ocontext = LIN_MAX;
        break;
    case 'a':
        text = true;
        break;
    case 'b':
        if (ignore_white_space < IGNORE_SPACE_CHANGE)
            ignore_white_space = IGNORE_SPACE_CHANGE;
        break;
    }
case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
    case 'U':
        {
            if (optarg)
            {
                numval = strtoumax (optarg, &numend, 10);
                if (*numend)
                    try_help ("invalid context length \\
"%s"", optarg);
                if (LIN_MAX < numval)
                    numval = LIN_MAX;
                else
                    numval = 3;
            }
            else
                numval = 3;
        }
        specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
        if (context < numval)
            context = numval;
        explicit_context = true;
    break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
            "%^\%s\%\%\%<#endif */ ! %\% %\%#ifdef %\% %\%>
endif */ %\% %\%#ifdef %\% %\%<#else
else */ %\% %\%>endif */ %\% %\%#ifndef %\% %\%<#else
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 else */ %\% %\%>endif */ %\% %\%#ifndef %\% %\%<#el...
+ 7 * strlen (optarg) - 14 /* 7*"%s" */
- 8 /* 5*"%%" + 3*"%c" */); 
sprintf (b, C_ifdef_group_formats,
0,
optarg, optarg, 0,
optarg, optarg, 0,
optarg, optarg, optarg);
for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
{ 
specify_value (&group_format[i], b, "-D");
b += strlen (b) + 1;
}
break;

case 'e':
specify_style (OUTPUT_ED);
break;

case 'E':
if (ignore_white_space < IGNORE_SPACE_CHANGE)
ignore_white_space |= IGNORE_TAB_EXPANSION;
break;

case 'f':
specify_style (OUTPUT_FORWARD_ED);
break;

case 'F':
add_regexp (&function_regexp_list, optarg);
break;

case 'h':
/* Split the files into chunks for faster processing.
Usually does not change the result.

This currently has no effect. */
break;

case 'H':
speed_large_files = true;
break;

case 'i':
ignore_case = true;
break;

case 'I':

add_regexp (&ignore_regexp_list, optarg);
break;

case 'l':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
#ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
#endif
    break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[[:alpha:]$_]\l\");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;
case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
                AUTHORS, (char *) NULL);
    check_stdout();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
                        exclude_options (), '\n'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
if (!(0 < numval && numval <= SIZE_MAX) || *numend)
    try_help("invalid width '%s'", optarg);
if (width != numval)
{
    if (width)
        fatal("conflicting width options");
    width = numval;
}
break;

case BINARY_OPTION:
#if O_BINARY
    binary = true;
    if (! isatty(STDOUT_FILENO))
        set_binary_mode(STDOUT_FILENO, O_BINARY);
#endif
break;

case FROM_FILE_OPTION:
    specify_value(&from_file, optarg, "--from-file");
break;

case HELP_OPTION:
    usage();
    check_stdout();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax(optarg, &numend, 10);
    if (*numend)
        try_help("invalid horizon length '%s'", optarg);
    horizon_lines = MAX(horizon_lines, MIN(numval, LIN_MAX));
break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
break;

case LINE_FORMAT_OPTION:
for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
    specify_value (&line_format[i], optarg, "--line-format");
break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
bread;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
bread;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
bread;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
bread;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
bread;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
bread;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
bread;

case TABSIZE_OPTION:
    numval = stroumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize " "%%s"", optarg);
    if (tabsize != numval)
        fatal ("conflicting tabsize options");
        tabsize = numval;
    }
    if (tabsize)
        fatal ("conflicting tabsize options");
            tabsize = numval;
        }
break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
break;

case UNCHANGED_LINE_FORMAT_OPTION:
  case OLD_LINE_FORMAT_OPTION:
  case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
  case OLD_GROUP_FORMAT_OPTION:
  case NEW_GROUP_FORMAT_OPTION:
  case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
  try_help (NULL, NULL);
  }
  prev = c;
  }

if (output_style == OUTPUT_UNSPECIFIED)
  {
    if (show_c_function)
      {
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
          context = 3;
      }
    else
      specify_style (OUTPUT_NORMAL);
  }

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
  {
    #if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS
         || defined HAVE_STRUCT_STAT_ST_SPARE1)
      time_format = "%Y-%m-%d %H:%M:%S,%NZz";
    #else
      time_format = "%Y-%m-%d %H:%M:%S %Zz";
    #endif
    }
  else
    {          

/* See POSIX 1003.1-2001 for this format. */
time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
   && (output_style == OUTPUT_CONTEXT
       || output_style == OUTPUT_UNIFIED)
       && (context < ocontext
           || (ocontext < context && ! explicit_context)))
   context = ocontext;

if (! tabsize)
tabsize = 8;
if (! width)
width = 130;

{
/* Maximize first the half line width, and then the gutter width,
   according to the following constraints:

   1. Two half lines plus a gutter must fit in a line.
   2. If the half line width is nonzero:
      a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
      b. If tabs are not expanded to spaces,
         a half line plus a gutter is an integral number of tabs,
         so that tabs in the right column line up. */

   intmax_t t = expand_tabs ? 1 : tabsize;
   intmax_t w = width;
   intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
   sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
   sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
   horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
   for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
   if (!line_format[i])
      line_format[i] = "%
   if (!group_format[OLD])
group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
        group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
        group_format[UNCHANGED] = "=%=";
    if (!group_format[CHANGED])
        group_format[CHANGED] = concat(group_format[OLD], group_format[NEW], "");

no_diff_means_no_output =
    (output_style == OUTPUT_IFDEF ? (!*group_format[UNCHANGED] || (STREQ(group_format[UNCHANGED], "%=") && !*line_format[UNCHANGED])) : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
    (brief & binary & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr | (ignore_regexp_list.regexps || ignore_white_space));

switch_string = option_list(argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
        fatal("--from-file and --to-file both specified");
    else
        for (; optind < argc; optind++)
        {
            int status = compare_files(NULL, from_file, argv[optind]);
            if (exit_status < status)
                exit_status = status;
        }
}
else
{
    if (to_file)
        for (; optind < argc; optind++)
        {
            int status = compare_files(NULL, argv[optind], to_file);
            if (exit_status < status)
                exit_status = status;
        }
    else
    {
        if (to_file)
            for (; optind < argc; optind++)
            {
                int status = compare_files(NULL, argv[optind], to_file);
                if (exit_status < status)
                    exit_status = status;
            }
        else
            for (; optind < argc; optind++)
            {
                int status = compare_files(NULL, from_file, argv[optind]);
                if (exit_status < status)
                    exit_status = status;
            }
        else
            for (; optind < argc; optind++)
            {
                int status = compare_files(NULL, argv[optind], from_file);
                if (exit_status < status)
                    exit_status = status;
            }
        else
            for (; optind < argc; optind++)
            {
                int status = compare_files(NULL, argv[optind], from_file);
                if (exit_status < status)
                    exit_status = status;
            }
if (argc - optind != 2)
{
    if (argc - optind < 2)
    try_help ("missing operand after "argv[argc - 1]);
    else
    try_help ("extra operand "argv[optind + 2]);
}
exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}

/* Print any messages that were saved up for last. */
print_message_queue();
check_stdout();
exit (exit_status);
return exit_status;

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);
    if (m != 0)
error (0, 0, "%s: %s", pattern, m);
    else
    {
        char *regexps = reglist->regexps;
        size_t len = reglist->len;
        bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
        size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
        size_t size = reglist->size;

        if (size <= newlen)
        {
            if (!size)
                size = 1;

        do size *= 2;
            while (size <= newlen);

        reglist->size = size;
reglist->regexps = regexprs = xrealloc (regexps, size);
}
if (multiple_regexps)
{
    regexps[len++] = '\';
    regexps[len++] = '|';
}
    memcpy (regexps + len, pattern, patlen + 1);
}

/* Ensure that REGLIST represents the disjunction of its regexps.
This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
if (reglist->regexps)
{
    /* At least one regexp was specified. Allocate a fastmap for it. */
    reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
    if (reglist->multiple_regexps)
    {
        /* Compile the disjunction of the regexps. 
         (If just one regexp was specified, it is already compiled.) */
        char const *m = re_compile_pattern (reglist->regexps, reglist->len,
                                            reglist->buf);
        if (m)
            error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
    }
}

static void
try_help (char const *reason_msgid, char const *operand)
{
if (reason_msgid)
    error (0, 0, _(reason_msgid), operand);
error (EXIT_TROUBLE, 0, "Try '%s --help' for more information.",
    program_name);
abort ();
}

static void
check_stdout (void)
{
if (ferror (stdout))
fatal ("write failed");
else if (fclose (stdout) != 0)
    pfatal_with_name (_("standard output"));
}

static char const * const option_help_msgid[] = {
    N_("--normal                  output a normal diff (the default)"),
    N_("-q, --brief                report only when files differ"),
    N_("-s, --report-identical-files report when two files are the same"),
    N_("-c, -C NUM, --context[NUM] output NUM (default 3) lines of copied context"),
    N_("-u, -U NUM, --unified[NUM] output NUM (default 3) lines of unified context"),
    N_("-e, --ed                   output an ed script"),
    N_("-n, --rcs                  output an RCS format diff"),
    N_("-y, --side-by-side         output in two columns"),
    N_("-W, --width=NUM            output at most NUM (default 130) print columns"),
    N_("--left-column             output only the left column of common lines"),
    N_("--suppress-common-lines   do not output common lines"),
    "
    N_("-p, --show-c-function      show which C function each change is in"),
    N_("-F, --show-function-line=RE show the most recent line matching RE"),
    N_("--label LABEL              use LABEL instead of file name\n"                  (can be repeated)",
    "
    N_("-t, --expand-tabs          expand tabs to spaces in output"),
    N_("--T, --initial-tab         make tabs line up by prepending a tab"),
    N_("--tabsize=NUM              tab stops every NUM (default 8) print columns"),
    N_("--suppress-blank-empty     suppress space or tab before empty output lines"),
    N_("--paginate                pass output through 'pr' to paginate it"),
    "
    N_("--recursive               recursively compare any subdirectories found"),
    N_("--no-dereference          don't follow symbolic links"),
    N_("--new-file                 treat absent files as empty"),
    N_("--unidirectional-new-file  treat absent first files as empty"),
    N_("--ignore-file-name-case    ignore case when comparing file names"),
    N_("--no-ignore-file-name-case consider case when comparing file names"),
    N_("--exclude=PAT              exclude files that match PAT"),
    N_("--exclude-from=FILE        exclude files that match any pattern in FILE"),
    N_("--starting-file=FILE       start with FILE when comparing directories"),
    N_("--from-file=FILE1          compare FILE1 to all operands;\n"                  FILE1 can be a directory"),
    N_("--to-file=FILE2            compare all operands to FILE2;\n"                  FILE2 can be a directory"),
    "
    N_("--ignore-case             ignore case differences in file contents"),
    N_("--E, --ignore-tab-expansion ignore changes due to tab expansion"),
    N_("--Z, --ignore-trailing-space ignore white space at line end"),
    N_("--b, --ignore-space-change ignore changes in the amount of white space"),
    N_("--w, --ignore-all-space    ignore all white space"),
    N_("--B, --ignore-blank-lines  ignore changes where lines are all blank"),
    "
Open Source Used In Cisco Emergency Responder 14Su1 MFG 13014
N_("-I, --ignore-matching-lines=RE  ignore changes where all lines match RE"),

N_("-a, --text              treat all files as text"),
N_("  --strip-trailing-cr   strip trailing carriage return on input"),
#if O_BINARY
N_("  --binary             read and write data in binary mode"),
#endif
N_("-D, --ifdef=NAME       output merged file with '#ifdef NAME' diffs"),
N_("  --GTYPE-group-format=GFMT  format GTYPE input groups with GFMT"),
N_("  --line-format=LFMT    format all input lines with LFMT"),
N_("  --LTYPE-line-format=LFMT format LTYPE input lines with LFMT"),
N_("  These format options provide fine-grained control over the output
   of diff, generalizing -D/--ifdef."),
N_("  LTYPE is 'old', 'new', or 'unchanged'.  GTYPE is LTYPE or 'changed'."),
N_("  GFMT (only) may contain:\n
   \%<  lines from FILE1\n\%
   \%>  lines from FILE2\n\%
\%[-][WIDTH][.PREC][doxX]LETTER  printf-style spec for LETTER\n\%L  contents of line\n\%l  contents of line, excluding any trailing newline\n\%[-][WIDTH][.PREC][doxX]n  printf-style spec for input line number"),
N_("  Both GFMT and LFMT may contain:\n   \%\%
   \%c'C'  the single character C\n   \%c'\OOO'  the character with octal code OOO\n   C  the character C (other characters represent themselves)"),
N_("-d, --minimal          try hard to find a smaller set of changes"),
N_("  --horizon-lines=NUM  keep NUM lines of the common prefix and suffix"),
N_("  --speed-large-files  assume large files and many scattered small changes"),
N_("  --help               display this help and exit"),
N_("  --version           output version information and exit"),
N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'."),
N_("If --from-file or --to-file is given, there are no restrictions on FILE(s)."),
N_("If a FILE is '-', read standard input."),
N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble."),
static void
usage (void)
{
    char const * const *p;

    printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
    printf (_("%s\n"), _("Compare FILES line by line."));

    fputs (_("\nMandatory arguments to long options are mandatory for short options too.\n"), stdout);

    for (p = option_help_msgid;  *p;  p++)
    {
        if (!**p)
            putchar ('\n');
        else
        {
            char const *msg = _(*p);
            char const *nl;
            while ((nl = strchr (msg, '\n')))
            {
                int msglen = nl + 1 - msg;
                printf (_(" %.s", msglen, msg);
                msg = nl + 1;
            }
        }

    printf (_(" %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
    }

    emit_bug_reporting_address ();
}

/* Set VAR to VALUE, reporting an OPTION error if this is a
 * conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
    if (*var && ! STREQ (*var, value))
    {
        error (0, 0, _("conflicting %s option value ‘%s’"), option, value);
        try_help (NULL, NULL);
    }
    *var = value;
}
/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
    if (output_style != style)
    {
        if (output_style != OUTPUT_UNSPECIFIED)
            try_help ("conflicting output style options", NULL);
        output_style = style;
    }
}

/* Set the last-modified time of *ST to be the current time. */
static void
set_mtime_to_now (struct stat *st)
{
    #ifdef STAT_TIMESPEC
        gettime (&STAT_TIMESPEC (st, st_mtim));
    #else
        struct timespec t;
        gettime (&t);
        st->st_mtime = t.tv_sec;
    #if defined STAT_TIMESPEC_NS
        STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
    #elif defined HAVE_STRUCT_STAT_ST_SPARSE1
        st->st_spare1 = t.tv_nsec / 1000;
    #endif
    #endif
}

/* Compare two files (or dirs) with parent comparison PARENT
and names NAME0 and NAME1.
(If PARENT is null, then the first name is just NAME0, etc.)
This is self-contained; it opens the files and closes them.

Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */
static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
    struct comparison cmp;
    #define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
int status = EXIT_SUCCESS;
bool same_files;
char *free0;
char *free1;

/* If this is directory comparison, perhaps we have a file
   that exists only in one of the directories.
   If so, just print a message to that effect. */
if (! ((name0 && name1)
    || (unidirectional_new_file && &name1)
    || new_file))
{
    char const *name = name0 ? name0 : name1;
    char const *dir = parent->file[!name0].name;

    /* See POSIX 1003.1-2001 for this format. */
    message("Only in %s: %s\n", dir, name);

    /* Return EXIT_FAILURE so that diff_dirs will return
     EXIT_FAILURE ("some files differ"). */
    return EXIT_FAILURE;
}

memset(cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */
if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
cmp.file[0].name = name0;
cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0
    = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1
    = file_name_concat (parent->file[1].name, name1, NULL);
}

/* Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
    {
        if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
        {
            cmp.file[f].desc = cmp.file[0].desc;
            cmp.file[f].stat = cmp.file[0].stat;
        }
        else if (STREQ (cmp.file[f].name, "-"))
        {
            cmp.file[f].desc = STDIN_FILENO;
            if (binary && ! isatty (STDIN_FILENO))
                set_binary_mode (STDIN_FILENO, O_BINARY);
            if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
                {
                    if (S_ISREG (cmp.file[f].stat.st_mode))
                    {
                        off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                        if (pos < 0)
                            cmp.file[f].desc = ERRNO_ENCODE (errno);
                        else
                            cmp.file[f].stat.st_size =
                                MAX (0, cmp.file[f].stat.st_size - pos);
                    }
                }
        }
        else if ((no_dereference_symlinks
                    && lstat (cmp.file[f].name, &cmp.file[f].stat)
                    /* POSIX 1003.1-2001 requires current time for
                       stdin. */
                    set_mtime_to_now (&cmp.file[f].stat);
    }
}
}
: stat (cmp.file[f].name, &cmp.file[f].stat))
! = 0)
    cmp.file[f].desc = ERRNO_ENCODE (errno);
}
}

/* Mark files as nonexistent as needed for -N and -P, if they are
inaccessible empty regular files (the kind of files that 'patch'
creates to indicate nonexistent backups), or if they are
top-level files that do not exist but their counterparts do
exist. */
for (f = 0; f < 2; f++)
    if ((new_file || (f == 0 && ! unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
 ? (S_ISREG (cmp.file[f].stat.st_mode)
 && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
 && cmp.file[f].stat.st_size == 0)
 : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
 || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
 && ! parent
 && (cmp.file[1 - f].desc == UNOPENED
 || cmp.file[1 - f].desc == STDIN_FILENO)))
    cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == NONEXISTENT)
    {
        memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
    }

for (f = 0; f < 2; f++)
    {
        int e = ERRNO_DECODE (cmp.file[f].desc);
        if (0 <= e)
        {
            errno = e;
perror_with_name (cmp.file[f].name);
            status = EXIT_TROUBLE;
        }
    }

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
    {
        /* If one is a directory, and it was specified in the command line,
use the file in that dir with the other file's basename. */
        int fnm_arg = DIR_P (0);
int dir_arg = 1 - fnm_arg;
char const *fnm = cmp.file[fnm_arg].name;
char const *dir = cmp.file[dir_arg].name;
char const *filename = cmp.file[dir_arg].name = free0
    = find_dir_file_pathname (dir, last_component (fnm));

if ((fnm_arg == 0) && !strcmp (fnm, "-"))
fatal ("cannot compare '-' to a directory");

if (!strcmp (fnm, "-"))
    fatal ("cannot compare '-' to a directory");

if ((no_dereference_symlinks
    ? lstat (filename, &cmp.file[dir_arg].stat)
    : stat (filename, &cmp.file[dir_arg].stat))
    != 0)
{
    perror_with_name (filename);
    status = EXIT_TROUBLE;
}

if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
    && cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
    = (cmp.file[0].desc != NONEXISTENT
    && cmp.file[1].desc != NONEXISTENT
    && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
    && same_file_attributes (&cmp.file[0].stat,
    &cmp.file[1].stat)))
    && no_diff_means_no_output)
{
    /* The two named files are actually the same physical file. 
    We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
    if (output_style == OUTPUT_IFDEF)
        fatal ("-D option not supported with directories");

    /* If both are directories, compare the files in them. */

    if (parent && !recursive)
    {
    }}
But don't compare dir contents one level down unless -r was specified.
See POSIX 1003.1-2001 for this format. /*
message("Common subdirectories: %s and %s\n",
cmp.file[0].name, cmp.file[1].name);
}
else
status = diff_dirs(&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
    || (parent
        && !((S_ISREG (cmp.file[0].stat.st_mode)
            || S_ISLNK (cmp.file[0].stat.st_mode))
        && (S_ISREG (cmp.file[1].stat.st_mode)
            || S_ISLNK (cmp.file[1].stat.st_mode)))))
    {
        if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
            {
/* We have a subdirectory that exists only in one directory. */
if ((DIR_P (0) | DIR_P (1))
    && recursive
    && (new_file
        || (unidirectional_new_file
            && cmp.file[0].desc == NONEXISTENT)))
    status = diff_dirs(&cmp, compare_files);
else
    {
        char const *dir;

/* PARENT must be non-NULL here. */
assert (parent);
dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

/* See POSIX 1003.1-2001 for this format. */
message("Only in %s: %s\n", dir, name0);

status = EXIT_FAILURE;
}
}
else
{
/* We have two files that are not to be compared. */

/* See POSIX 1003.1-2001 for this format. */
message5("File %s is a %s while file %s is a %s\n", 
    file_label[0] ? file_label[0] : cmp.file[0].name,
    file_type(&cmp.file[0].stat),
/* This is a difference. */
status = EXIT_FAILURE;
}
else if (S_ISLNK (cmp.file[0].stat.st_mode)
    || S_ISLNK (cmp.file[1].stat.st_mode))
{
    /* We get here only if we use lstat(), not stat(). */
    assert (no_dereference_symlinks);

    if (S_ISLNK (cmp.file[0].stat.st_mode)
        && S_ISLNK (cmp.file[1].stat.st_mode))
    {
        /* Compare the values of the symbolic links. */
        char *link_value[2] = { NULL, NULL };

        for (f = 0; f < 2; f++)
        {
            link_value[f] = xreadlink (cmp.file[f].name);
            if (link_value[f] == NULL)
            {
                perror_with_name (cmp.file[f].name);
                status = EXIT_TROUBLE;
                break;
            }
        }
        if (! STREQ (link_value[0], link_value[1]))
        {
            message5 ("Symbolic links %s and %s differ\n", 
                cmp.file[0].name, cmp.file[1].name);
            /* This is a difference. */
            status = EXIT_FAILURE;
        }
    }
    for (f = 0; f < 2; f++)
        free (link_value[f]);
}
else
{
    /* We have two files that are not to be compared, because
    one of them is a symbolic link and the other one is not. */

    message5 ("File %s is a %s while file %s is a %s\n", 

/* This is a difference. */
status = EXIT_FAILURE;
}
}
else if (files_can_be_treated_as_binary
&& S_ISREG (cmp.file[0].stat.st_mode)
&& S_ISREG (cmp.file[1].stat.st_mode)
&& cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message("Files %s and %s differ
", file_label[0] ? file_label[0] : cmp.file[0].name,
    status = EXIT_FAILURE;
}
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (cmp.file[1].desc == UNOPENED)
    {
        if (same_files)
            cmp.file[1].desc = cmp.file[0].desc;
        else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
            {
                perror_with_name (cmp.file[1].name);
                status = EXIT_TROUBLE;
            }
    }

    /* Compare the files, if no error was found. */

    if (status == EXIT_SUCCESS)
    status = diff_2_files (&cmp);
/* Close the file descriptors. */

if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc &&
    close (cmp.file[1].desc) != 0)
{
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
}

/* Now the comparison has been done, if no error prevented it, and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
        message ("Files %s and %s are identical
",
            file_label[0] ? file_label[0] : cmp.file[0].name,
    else
        {
            /* Flush stdout so that the user sees differences immediately. This can hurt performance, unfortunately. */
            if (fflush (stdout) != 0)
                pfatal_with_name (_("standard output"));
        }
    free (free0);
    free (free1);
    return status;
}

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Found in path(s):
* /opt/cola/permits/1136045091_1613664852.54/0/slf4j-jdk14-1-7-30-sources-1-
  jar/org/slf4j/implement/StaticMDCBinder.java
* /opt/cola/permits/1136045091_1613664852.54/0/slf4j-jdk14-1-7-30-sources-1-
  jar/org/slf4j/implement/JDK14LoggerAdapterFactory.java
* /opt/cola/permits/1136045091_1613664852.54/0/slf4j-jdk14-1-7-30-sources-1-
  jar/org/slf4j/implement/StaticLoggerBinder.java
* /opt/cola/permits/1136045091_1613664852.54/0/slf4j-jdk14-1-7-30-sources-1-
  jar/org/slf4j/implement/StaticMarkerBinder.java
* /opt/cola/permits/1136045091_1613664852.54/0/slf4j-jdk14-1-7-30-sources-1-
  jar/org/slf4j/implement/JDK14LoggerFactory.java

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1.1212 xmlsec-java 1.5.6

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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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1.1219 kerberos 1.15.1 37.el7_6

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lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.1228 python-dateutil 1.5

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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.cni.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
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1.1230 python-iniparse 0.4-9.el7

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Martin Richards
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    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
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    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
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  <ItemGroup>
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  </ItemGroup>
  <ItemGroup>
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1.1243 json-smart 2.1.1

1.1244 guava 29.0-jre
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/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/JdkBackedImmutableBiMap.java
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 */
/**
 * Outer class that exists solely to let us write [{@code Partially.GwtIncompatible}] instead of plain
 * [{@code GwtIncompatible}]. This is more accurate for [{@link Futures#catching}], which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use [{@code PartiallyGwtIncompatible}] because then the GWT compiler wouldn't recognize
 * it as a [{@code GwtIncompatible}] annotation. And for [{@code Futures.catching}], we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
 * version.
 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/eventbus/SubscriberRegistry.java
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jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/CommonMatcher.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/package-info.java

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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
 *
*/

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  jar/com/google/common/collection/SortedMultisets.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/SortedMultiset.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/common/Hash/MacHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/Platform.java
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 */

/**
 * Holder for web specializations of methods of [ @code Doubles ]. Intended to be empty for regular
 * version.
 */

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  jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/DiscreteDomain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collection/ImmutableSetMultimap.java
jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
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jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/JdkBackedImmutableSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/SortedIterables.java
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jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/ImmutableDoubleArray.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/io/MoreFiles.java
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  jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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 */

/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
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 */
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/MoreExecutors.java
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/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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  jar/com/google/common/base/SmallCharMatcher.java
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 */
/**
 * Returns an array containing all of the elements in the specified collection. This method 
 * returns the elements in the order they are returned by the collection's iterator. The returned 
 * array is "safe" in that no references to it are maintained by the collection. The caller is 
 * thus free to modify the returned array. 
 *
 * <p>This method assumes that the collection size doesn't change while the method is running. 
 * <p>TODOMarketing: support concurrently modified collections? 
 * <p>@param c the collection for which to return an array of elements 
 */

Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ObjectArrays.java
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  jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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  jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ForwardingListMultimap.java

jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect(Collectors.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/DirectedGraphConnections.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/io/WriteMode.java

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jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/Stats.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MutableNetwork.java
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 */

/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b>
 * Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Graphs.java

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* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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  jar/com/google/common/util/concurrent/IgnoreJRERequirement.java
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  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashingOutputStream.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashFunction.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/IntMath.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/EmptyContiguousSet.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheStats.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/Hasher.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/LongMath.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FunctionalEquivalence.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/UnsignedLongs.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Present.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/PrimitiveSink.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashFunction.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Optional.java
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  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Ints.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Longs.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/LongMath.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Function.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Equivalence.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Strings.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/parallel/Worker.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/CheckedFunction.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ConcurrentMap.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Ints$8.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Longs$8.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Function$8.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Function$10.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FunctionalEquivalence$10.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/BigIntegerMath.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/Doubles.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/BigIntegerMath$10.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/BigIntegerMath$8.java
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jar/com/google/common/collect/Queues.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/HashCode.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/ForwardingSortedMap.java
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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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src/manual/en_US/figures/model2sketch.png
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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  * HTTPS patch (which inspired HTTPSConnectionPool)
* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)
* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers
* btoconnor <brian@btoconnor.net>
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* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields
* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes
* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to `ca_cert` file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter
* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.
* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
* Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
* Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
* Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
* DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
* Test improvements

* Chris Olufson <tycarac@gmail.com>
* Fix for connection not being released on HTTP redirect and response not preloaded

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

1.1267 wayland 1.15.0 1.el7

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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* /opt/ws_local/PERMITS_SQL/1035571486_1589268573.48/0/axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptDeploymentEngine.java
* /opt/ws_local/PERMITS_SQL/1035571486_1589268573.48/0/axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptResource.java
* /opt/ws_local/PERMITS_SQL/1035571486_1589268573.48/0/axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptTrigger.java
1.1274 cglib 2.2

1.1275 pkix-ssh 10.1

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1.1281 atk 2.26.2-1.el7

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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1.1282 pth 2.0.7 23.el7
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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      table of data to be supplied by an application program that uses
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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   When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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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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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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jar/org/apache/commons/digester/substitution/MultiVariableExpander.java
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  jar/org/apache/commons/digester/plugins/strategies/LoaderSetProperties.java
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* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-jar/org/apache/commons/digester/parser/package.html
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/package.html
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-jar/org/apache/commons/digester/xmlrules/package.html
* /opt/cola/permits/1136489739_1613774324.47/0/commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/strategies/package.html

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  jar/org/apache/commons/digester/plugins/PluginConfigurationException.java
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  jar/org/apache/commons/digester/ParserFeatureSetterFactory.java
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jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltClass.java
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  jar/org/apache/commons/digester/xmlrules/DigesterLoadingException.java
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1.1298 wsdl4j 1.6.2

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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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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
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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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 *
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 *
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 *
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problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

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accompany your license with an exception[2]. This particular problem was
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licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS  http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl  http://www.yassl.com/

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axTLS  http://axtls.sourceforge.net/

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib  http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos  http://web.mit.edu/kerberos/www/dist/
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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn  http://josefsson.org/libidn/

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OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

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*/opt/cola/permits/1136687557_1613859286.0/0/spring-aop-4-3-14-release-sources-2-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
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  jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-
  jar/org/slf4j/impl/SimpleLoggerFactory.java
* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-
  jar/org/slf4j/impl/StaticLoggerBinder.java
* /opt/cola/permits/1136044785_1613665011.12/0/slf4j-simple-1-7-24-sources-1-
  jar/org/slf4j/impl/StaticMDCBinder.java

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1.1331 slf4j-simple 1.7.25

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* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-jar/org/slf4j/impl/SimpleLoggerFactory.java
* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1136290122_1613729620.49/0/slf4j-simple-1-7-25-sources-2-jar/org/slf4j/impl/StaticMDCBinder.java

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jar/org/slf4j/implement/SimpleLogger.java

1.1332 webservices-tools 2.1-b16

1.1333 sizeof 0.3.0

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1.1344 jackson-jaxrs 1.9.9

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- javaee_web_services_client_1_4.xsd
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* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1- jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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* /opt/ws_local/PERMITS_SQL/1068906463_1594434638.79/0/netty-transport-native-epoll-4-1-33-final-sources-1- jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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 * Set the `TCP_MD5SIG` option on the socket. See `linux/tcp.h` for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
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Found in path(s):
*/

1.1356 libgcrypt 1.5.3-14.el7
1.1356.1 Available under license:

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The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
## Third-party Content

This project leverages the following third party content.

None

## Cryptography

None

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1.1369 libcroco 0.6.12 4.el7

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1.1372 util-linux 2.23.2-63.el7

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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
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<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td></td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
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<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529eb59e9341afef0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551f6ac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused  5  4.1BSD  9  4.4LFS  d  boot
1  swap  6  Eighth Edition  a  unknown  e  ADOS
2  Version 6  7  4.2BSD  b  HPFS  f  HFS
3  Version 7  8  MS-DOS  c  ISO-9660  10  AdvFS
4  System V

BSD disklabel command (m for help):

1.1373 gpm 2.1.0
1.1373.1 Available under license :
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1.1375 jakarta-ws-rs-api 2.1.6

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* /opt/cola/permits/1136045075_1613665083.17/0/jmespath-java-1-11-61-sources-1-jar/com/amazonaws/jmespath/OpLessThanOrEqualTo.java
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/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/context/support/AbstractRefreshableApplicationContext.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources
jar/org/springframework/web/multipart/support/AbstractMultipartHttpServletRequest.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/util/DefaultUriTemplateHandler.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/http/server/reactive/ReactorHttpHandlerAdapter.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/method/support/ModelAndViewContainer.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/method/annotation/MatrixVariable.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/http/codec/LoggingCodecSupport.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/util/NestedServletException.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/bind/annotation/ExpressionValueMethodArgumentResolver.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/http/StreamingHttpOutputMessage.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/context/support/XmlWebApplicationContext.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/context/request/async/CallableInterceptorChain.java

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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/web/filter/ServletModelAttributeRequestLoggingFilter.java

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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/http/server/ServerHttpResponse.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/HttpMediaTypeException.java
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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
#
# MIME type (lowercased)Extensions
#=============================================================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/aplixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
application/atomicmail
application/atomsvc+xml
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+xml
# application/calendar-xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml
# application/cdfx+xml
application/cdmi-capability+xml
application/cdmi-container+xml
application/cdmi-domain+xml
application/cdmi-object+xml
application/cdmi-queue+xml
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnnp+xml
# application/coap-group+json
# application/commonground
# application/confederation-info+xml
# application/cpl+xml
# application/csrattrs
# application/csta+xml
# application/cstadata+xml
# application/csvm+json
application/cu-seemecu
# application/cybercash
# application/dash+xml
# application/dashdelta
application/davmount+xml
# application/dca-rft
# application/dcd
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
application/docbook+xml
# application/dskpp+xml
application/dssc+der
application/dssc+xml
# application/dvcs
application/ecmascript
# application/edi-consent
# application/edi-x12
# application/edifact
# application/efi
# application/emergencycalldata.comment+xml
# application/emergencycalldata.deviceinfo+xml
# application/emergencycalldata.providerinfo+xml
# application/emergencycalldata.serviceinfo+xml
# application/emergencycalldata.subscriberinfo+xml
application/emma+xml
# application/emotionml+xml
# application/encaprtp
# application/epp+xml
application/epub+zip
# application/eshop
# application/example
application/exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fits
# application/font-sfnt
application/font-tdpfr
application/font-woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
application/gpx+xml
application/gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudiosk
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml
# application/jot
application/ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive
application/java-serialized-object
class
application/java-vm
text/javascript
# application/jose
# application/jose+json
# application/jrd+json
application/jsonjson
# application/json-patch+json
# application/json-seq
application/jsonml+json
# application/jwk+json
# application/jwk-set+json
# application/jwt
# application/kpml-request+xml
# application/kpml-response+xml
# application/ld+json
# application/lgr+xml
# application/link-format
# application/load-control+xml
application/lost+xml
# application/lostsync+xml
# application/lxf
application/mac-binhex40
application/mac-compactpro
class
# application/macwriteii
application/mads+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream	bind mrl mar so dist distz pkg bpk dump elc deploy
application/oda
# application/odx
application/oebps-package+xml
application/oggx
application/omdoc+xml
application/onenote	onetoc onetoc2 onetmp onepkg
application/oxps
# application/p2p-overlay+xml
# application/parityfec
application/pdf
# application/pdx
application/pgp-encrypted
gpg
# application/pgp-keys
application/pgp-signature.asc sig
application/pics-rulesprf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10	p10
# application/pkcs12
application/pkcs7-mime7m p7c
application/pkcs7-signature7s
application/pkcs8p8
application/pkix-attr-certac
application/pkix-certificate
application/pkix-crl crl
application/pkix-ckipath kipath
application/pkix-emppki
application/pls+xml
# application/poc-settings+xml
application/postscriptai eps ps
# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
application/prs.cww
# application/prs.hpub+zip
# application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xml
tpskcxml
# application/qsig
# application/vnd.motorola.flexsuite.kmr
# application/vnd.motorola.flexsuite.ttc
# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
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# application/vnd.ms-3mfdocument
application/vnd.ms-artgalry cil
# application/vnd.ms-asf
application/vnd.ms-cab-compressed cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel xlsx xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12xlsb
application/vnd.ms-excel.sheet.macroenabled.12xlsm
application/vnd.ms-excel.template.macroenabled.12xltm
application/vnd.ms-fontobject eot
application/vnd.ms-htmlhelp chm
application/vnd.ms-ims ims
application/vnd.ms-lrm lrm
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application/vnd.ms-pki.seccat cat
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# application/vnd.ms-windows.devicepairing
# application/vnd.ms-windows.nwprinting.oob
# application/vnd.ms-windows.printerpairing
# application/vnd.ms-windows.wsd.oob
# application/vnd.ms-wmdrm.lic-chlg-req
# application/vnd.ms-wmdrm.lic-resp
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# application/vnd.ms-wmdrm.meter-resp
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application/vnd.ms-word.template.macroenabled.12dotm
application/vnd.ms-works wps wks wcm wdb
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# audio/amr-wb+
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# audio/evrcnw1
# audio/evrcwb
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# audio/evrcwb1
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# audio/g7221
# audio/g723
# audio/g726-16
# audio/g726-24
# audio/speex
# audio/t140c
# audio/t38
# audio/telephone-event
# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
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# audio/vnd.qcelp
# audio/vnd.rhetorex.32kadpcm
audio/vnd.riprip
# audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvsd
# audio/vorbis

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<td>audio/x-pn-realaudio ra</td>
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<td>audio/xmxml</td>
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<td>chemical/x-cif CIF</td>
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<td># image/example</td>
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<td>image/ief ief</td>
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<td>image/svg+xml svg svgz</td>
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<td>image/svg+xml</td>
<td># image/t38</td>
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<td># image/tiff-fx</td>
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# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdnn+xml
# message/news
# message/partial
message/rfc822eml mime
# message/s-http
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/igesigs iges
model/meshmsh mesh silo
model/vnd.collada+xmlmldae
model/vnd.dwf/dwf
# model/vnd.flatland.3dml
model/vnd.gdl/gdl
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# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu/vtu
model/vrml/wrl vrml
model/x3d+binaryx3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrmlx3dv x3dvz
model/x3d+xml/x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
Found in path(s):
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources.jar/org/springframework/http/mime.types
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-
jar/org/springframework/http/client/reactive/AbstractClientHttpRequest.java
* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/method/ControllerAdviceBean.java
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* /opt/cola/permits/1167717855_1621845576.78/0/spring-web-5-3-7-sources-jar/org/springframework/web/context/request/WebHandler.java
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org.springframework.web.server.adapter.WebHttpHandlerBuilder$SpringWebBlockHoundIntegration

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This library, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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**TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION**

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
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all those who receive copies directly or indirectly through you, then
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refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

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such claims; this section has the sole purpose of protecting the
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to distribute software through any other system and a licensee cannot impose that choice.

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12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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**END OF TERMS AND CONDITIONS**

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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libfreedreno_layout = static_library(
    'freedreno_layout',
    [  
    'fd5_layout.c',
    'fd6_layout.c',
    'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
    c_args : [no_override_init_args],
    gnu_symbol_visibility : 'hidden',
    dependencies : idep_nir_headers,
    build_by_default : false,
)

foreach major : ['5', '6']
    test(
        'fd' + major + '_layout',
        executable(
            'fd' + major + '_layout',
            [  
            'fd_layout_test.c',
            'fd' + major + '_layout_test.c',
            freedreno_xml_header_files,
            ],
            link_with: libfreedreno_layout,
            dependencies : idep_mesautil,
            include_directories: [  
            inc_include,
            inc_src,
            inc_mapi,
            inc_mesa,
            inc_gallium,
            inc_gallium_aux,
            inc_freedreno],
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    )
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1.1403 unixodbc 2.3.1 14.el7
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#
#
# This module defines the NIO XNIO provider
org.xnio.nio.NioXnioProvider

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* /opt/cola/permits/1109699746_1606393198.1/0/xnio-nio-3-8-0-final-sources-jar/META-INF/services/org.xnio.XnioProvider
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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bmp
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  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meintro_fr.me
  doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>`, e.g. `hyphen.de` or `hyphen.uk`.

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. The file `tmac/hyphen.fr` contains the same patterns as the file `frhyph.tex` (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv` is identical to the file `svhyph.tex`, which can be found at

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. The files `tmac/hyphen.det` and `tmac/hyphen.den` contain the same patterns as the files `dehypht-x-2017-03-31.pat` and `dehyphn-x-2017-03-31.pat` (for TeX), respectively, which can be found at

http://ctan.org/tex-archive/language/hyphenation/dehyp-exptl

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. The file `tmac/hyphen.cs` contains the same patterns as the file `czhyphen.tex` (for TeX), which can be found in the archive

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1.1429 jackson 2.9.10

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**1.1430 biosdevname 0.7.3 2.el7**

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1.1431 device-mapper-multipath 0.4.9 131.el7

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1.1453 idna 2.4

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A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import io, sys
from setuptools import setup

version = "2.4"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': version,
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
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            'Programming Language :: Python',
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            'Programming Language :: Python :: 3.3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'test_suite': 'tests',
    }

    setup(**arguments)
```
if __name__ == '__main__':
    main()

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073192095_1596538050.69/0/python-idna-2.4-1.el7-1.src.rpm-cosi-expand-archive-T43oinCV/idna-2.4.tar.gz-cosi-expand-archive-7rjKdsgo/idna-2.4/setup.py
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1.1454 biosdevname 0.7.3 1.el7

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