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*@(#)bitstring.h 8.1 (Berkeley) 7/19/93
*/

1.2 findutils 4.5.11 6.el7

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What is it?

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

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

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

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

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

Running the BIRT Engine in Console

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

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

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

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2.2.5.RELEASE

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Columns: 4
#
 0 0 0   Index 3
 65 38 30  Index 4
 103 62 49  Index 6
 79 73 72   Index 7
 114 101 97  Index 8
 208 127 100  Index 9
 151 144 142  Index 10
 221 207 199  Index 11
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Name: badpalettefile
Columns: 4
#
0 0 0 Index 3
012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
34567890123456789
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11
NotoNastaliqUrdu-Regular.ttf and NotoSansSymbols-Regular.ttf, from https://github.com/googlei18n/noto-fonts
NotoSans-Regular.ttf, from https://www.google.com/get/noto/
NotoColorEmoji.ttf, from https://github.com/googlefonts/noto-emoji
AdobeVFPrototype.ttf, from https://github.com/adobe-fonts/adobe-variable-font-prototype
TINY5x3GX.ttf, from http://velvetyne.fr/fonts/tiny
ArefRuqaa-Regular.ttf, from https://github.com/google/fonts/tree/master/ofl/arefruqaa
ter-x20b.pcf, from http://terminus-font.sourceforge.net/
BungeeColor-Regular_colr_Windows.ttf, from https://github.com/djrrb/bungee

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Columns: 0
#

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Columns: 4
#
0 0 0  Index 3
65 38
103 62 49  Index 6
79 73 72  Index 7
114 101 97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

1.11 libverto 0.2.5 4.el7
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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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.

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

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

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

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
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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.

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* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources-jar/org/springframework/security/web/access/RequestMatcherDelegatingAccessDeniedHandler.java
* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources-jar/org/springframework/security/web/authentication/logout/ForwardLogoutSuccessHandler.java
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* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources-jar/org/springframework/security/web/firewall/StrictHttpFirewall.java
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* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources.jar/org/springframework/security/web/access/channel/AbstractRetryEntryPoint.java
* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources.jar/org/springframework/security/web/savedrequest/SavedCookie.java

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* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources-
  jar/org/springframework/security/web/session/SessionInformationExpiredEvent.java
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  jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java
* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources.jar/org/springframework/security/web/server/authentication/logout/RedirectServerLogoutSuccessHandler.java
* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources.jar/org/springframework/security/web/server/WebFilterChainProxy.java
* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources.jar/org/springframework/security/web/server/authorization/RedirectServerAuthenticationSuccessHandler.java
* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources.jar/org/springframework/security/web/server/util/matcher/AndServerWebExchangeMatcher.java
* /opt/ws_local/PERMITS_SQL/1068924409_1594435181.63/0/spring-security-web-5-2-2-release-sources.jar/org/springframework/security/web/server/authentication/RedirectServerAuthenticationSuccessHandler.java
1.14 springfox-core 2.9.2

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* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation builders/ModelPropertyBuilder.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/service/AuthorizationCodeGrant.java
* /opt/cola/permits/1177939693_1625570709.22/0/springfox-core-2-9-2-sources-3.jar/springfox/documentation/schema/WildcardType.java
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  jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java
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  jar/springfox/documentation/builders/AlternateTypeBuilder.java
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reactor.core.scheduler.ReactorBlockHoundIntegration

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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
  jar/reactor/core/publisher/FluxCallableOnAssembly.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
  jar/reactor/core/publisher/FluxArray.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
  jar/reactor/core/publisher/FluxRefCountGrace.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
  jar/reactor/core/publisher/FluxPublishMulticast.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
  jar/reactor/core/publisher/SynchronousSink.java
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  jar/reactor/core/publisher/MonoToCompletableFuture.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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jar/reactor/core/scheduler/SingleWorkerScheduler.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/core/publisher/FluxDoFinally.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/core/publisher/FluxEmpty.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/core/publisher/FluxRetry.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/core/publisher/Signal.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/core/publisher/MonoSourceFlux.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/util/function/Tuple2.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/util/context/Context.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/core/publisher/FluxFirstEmitting.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
jar/reactor/core/publisher/FluxFirstEmitting.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxDeferWithContext.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/InternalFluxOperator.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/scheduler/ReactorBlockHoundIntegration.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/ContextTrackingFunctionWrapper.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/ParallelDoOnEach.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/InternalConnectableFluxOperator.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/MonoDeferWithContext.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxErrorSupplied.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/SourceProducer.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxLiftFuseable.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
  jar/reactor/util/concurrent/SpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
  jar/reactor/util/annotation/NonNull.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxDoFirst.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxDoFirstFuseable.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/MonoDoFirstFuseable.java

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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/util/context/Context3.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/MonoExpand.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxIndexFuseable.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxLimitRequest.java

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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/ConnectableLift.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/MonoDoOnEach.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/util/context/Context2.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/util/context/Context4.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/util/context/Context5.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxReplay.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxExtensions.kt
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/MonoCacheTime.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/FluxBufferPredicate.java
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* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/publisher/MonoCollect.java
* /opt/ws_local/PERMITS_SQL/1068454889_1594389329.53/0/reactor-core-3-3-3-release-sources-jar/reactor/core/scheduler/BoundedElasticScheduler.java
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1.17 selinux 2.6-r0.12

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/
* @param authentication represents the user in question. Should not be null.
* @param targetDomainObject the domain object for which permissions should be
* checked. May be null in which case implementations should return false, as the null
* condition can be checked explicitly in the expression.
* @param permission a representation of the permission object as supplied by the
  * expression system. Not null.
* @return true if the permission is granted, false otherwise
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* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/access/AfterInvocationProvider.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/access/vote/AbstractAclVoter.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/authentication/AuthenticationDetailsSource.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/authentication/jaas/AuthorityGranter.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/access/intercept/NullRunAsManager.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/access/SecurityConfig.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
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Reviews the <code>Object</code> returned from a secure object invocation, being able to modify the <code>Object</code> or throw an [link AccessDeniedException].

Typically used to ensure the principal is permitted to access the domain object instance returned by a service layer bean. Can also be used to mutate the domain object instance so the principal is only able to access authorised bean properties or <code>Collection</code> elements.

Special consideration should be given to using an <code>AfterInvocationManager</code> on bean methods that modify a database. Typically an <code>AfterInvocationManager</code> is used with read-only methods, such as <code>public DomainObject getById(id)</code>. If used with methods that modify a database, a transaction manager should be used to ensure any <code>AccessDeniedException</code> will cause a rollback of the changes made by the transaction.

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* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-jar/org/springframework/security/access/intercept/AfterInvocationManager.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java

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jar/org/springframework/security/authentication/ReactiveAuthenticationManagerResolver.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/core/userdetails/UserDetailsPasswordService.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/cryptocurrency/argon2/Argon2PasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/authentication/event/LogoutSuccessEvent.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/authentication/ReactiveAuthenticationManagerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/authentication/UserDetailsRepositoryReactiveAuthenticationManager.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/authentication/AbstractUserDetailsReactiveAuthenticationManager.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/cryptocurrency/argon2/Argon2EncodingUtils.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/core/annotation/CurrentSecurityContext.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/authentication/AuthenticationManagerResolver.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1-
  jar/org/springframework/security/crypto/scrypt/SCryptPasswordEncoder.java

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  jar/org/springframework/security/provisioning/JdbcUserDetailsManager.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/crypto/password/MessageDigestPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/ProviderManager.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/authentication/CachingUserDetailsService.java
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* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/jackson2/BadCredentialsExceptionMixin.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/core/Transient.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/access/UnmodifiableListDeserializer.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/crypto/password/LdapShaPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068924438_1594435268.09/0/spring-security-core-5-2-2-release-sources-1.jar/org/springframework/security/core/token/KeyBasedPersistenceTokenService.java

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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1.43 glibc 2.24

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* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ResponseHeader.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/Info.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiImplicitParams.java
* /opt/cola/permits/1177939701_1625570671.31/0/swagger-annotations-1-5-20-sources-1-jar/io/swagger/annotations/ApiOperation.java
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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.
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".)

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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
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However, linking a "work that uses the Library" with the Library
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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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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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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
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That's all there is to it!

1.50 vim 7.4.629-7.el7
1.50.1 Available under license :
   *uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06

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http://www.vim.org/iccf/
http://www.iccf.nl/
You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

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=== end of license ===

Note:

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

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

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

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

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

---

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

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

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable
items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

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

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

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps.

When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others” below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.
Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


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

Bram@iccf-holland.org

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

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruehihof 1
8134 Adliswil
Switzerland

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

vim:tw=78:ts=8:ft=help:norl:
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(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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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

#include <config.h>
#include <stdio.h>
#include <sys/types.h>
#include <pwd.h>
#include <grp.h>

#include "system.h"
#include "chown-core.h"
#include "error.h"
#include "ignore-value.h"
#include "quote.h"
#include "root-dev-ino.h"
#include "xfts.h"

#define FTSENT_IS_DIRECTORY(E) 
   ((E)->fts_info == FTS_D 
   || (E)->fts_info == FTS_DC 
   || (E)->fts_info == FTS_DP 
   || (E)->fts_info == FTS_DNR)

enum RCH_status
{
   /* we called fchown and close, and both succeeded */
   RC_ok = 2,

   /* required_uid and/or required_gid are specified, but don't match */
   RC_excluded,

   /* SAME_INODE check failed */
   RC_inode_changed,

   /* open/fchown isn't needed, isn't safe, or doesn't work due to 
   permissions problems; fall back on chown */
   RC_do_ordinary_chown,

   /* open, fstat, fchown, or close failed */
RC_error

extern void
chopt_init (struct Chown_option *chopt)
{
    chopt->verbosity = V_off;
    chopt->root_dev_ino = NULL;
    chopt->affect_symmlink_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));
/* Allocate a string representing USER and GROUP. */

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),

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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);
            }
        }
        break;
    }
/* Tell fts not to traverse into this hierarchy. */
fts_set (fts, ent, FTS_SKIP);
/* Ensure that we do not process "/" on the second visit. */
ignore_value (fts_read (fts));
return false;
} return true;
} break;

case FTS_DP:
if (! chopt->recurse)
  return true;
break;

case FTS_NS:
/* For a top-level file or directory, this FTS_NS (stat failed)
indicator is determined at the time of the initial fts_open call.
With programs like chmod, chown, and chgrp, that modify
permissions, it is possible that the file in question is
accessible when control reaches this point. So, if this is
the first time we've seen the FTS_NS for this file, tell
fts_read to stat it "again". */
if (ent->fts_level == 0 && ent->fts_number == 0)
{
  ent->fts_number = 1;
  fts_set (fts, ent, FTS_AGAIN);
  return true;
}
if (! chopt->force_silent)
  error (0, ent->fts_errno, "cannot access %s",
             quote (file_full_name));
ok = false;
break;

case FTS_ERR:
if (! chopt->force_silent)
  error (0, ent->fts_errno, "%s", quote (file_full_name));
ok = false;
break;

case FTS_DNR:
if (! chopt->force_silent)
  error (0, ent->fts_errno, "cannot read directory %s",
             quote (file_full_name));
ok = false;
break;
case FTS_DC: /* directory that causes cycles */
if (cycle_warning_required (fts, ent))
{
    emit_cycle_warning (file_full_name);
    return false;
}
break;

default:
    break;
}

if (!ok)
{
    do_chown = false;
    file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
        && chopt->verbosity == V_off
        && ! chopt->root_dev_ino
        && ! chopt->affect_symlink_referent)
{
    do_chown = true;
    file_stats = ent->fts_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
        && (file_stats->st_mode & S_ISDIR == 0));

    file_stats = &stat_buf;

    /* 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
        && (file_stats->st_mode & S_ISDIR == 0));

    file_stats = &stat_buf;

    /* 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;

    /* 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;
/* 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_symlinkReferent)
    {
        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. */

eenum RCH_status err
    = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                        required_uid, required_gid);
switch (err)
{
    case RC_ok:
        break;

    case RC_do_ordinary_chown:
ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
break;

case RC_error:
    ok = false;
    break;

case RC_inode_changed:
    /* FIXME: give a diagnostic in this case? */
    case RC_excluded:
        do_chown = false;
        ok = false;
        break;

default:
    abort();
}
}

/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */

if (do_chown && !ok && ! chopt->force_silent)
    error (0, errno, (uid != (uid_t) -1
      ? _("changing ownership of %s")
       : _("changing group of %s")),
    quote (file_full_name));
}

if (chopt->verbosity != V_off)
{
    bool changed =
      ((do_chown && ok && symlink_changed)
       && ! ((uid == (uid_t) -1 || uid == file_stats->st_uid)
            && (gid == (gid_t) -1 || gid == file_stats->st_gid)));

if (changed || chopt->verbosity == V_high)
{
    enum Change_status ch_status =
      (!ok ? CH FAILED
       : !symlink_changed ? CH NOT APPLIED
       : !changed ? CH NO CHANGE REQUESTED
       : CH SUCCEEDED);
    char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
describe_change (file_full_name, ch_status,
    old_usr, old_grp,
    chopt->user_name, chopt->group_name);
    free (old_usr);
    free (old_grp);
}
}

} if ( ! chopt->recurse)
    fts_set (fts, ent, FTS_SKIP);

return ok;
}

/* Change the owner and/or group of the specified FILES. 
   BIT_FLAGS specifies how to treat each symlink-to-directory 
   that is encountered during a recursive traversal. 
   CHOPT specifies additional options. 
   If UID is not -1, then change the owner id of each file to UID. 
   If GID is not -1, then change the group id of each file to GID. 
   If 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 = xfits_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;

---

1.57 pcre 8.32 17.el7

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
PCRE JUST-IN-TIME COMPILATION SUPPORT
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STACK-LESS JUST-IN-TIME COMPILER
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1.58 groovy-templates 2.5.9

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* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/TemplateConfiguration.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/GStringTemplateEngine.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/Template.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/TemplateExecutionException.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/StreamingTemplateEngine.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/XmlTemplateEngine.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/TemplateASTTransformer.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/TemplateResolver.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/TemplateParseException.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/TagLibAdapter.groovy
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/MarkupTemplateTypeCheckingExtension.groovy
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/AutoNewLineTransformer.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/TemplateEngine.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/IncludeType.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/MarkupTemplateEngine.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/BaseTemplate.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/SimpleTemplateEngine.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/MarkupBuilderCodeTransformer.java
* /opt/cola/permits/1194549503_1629492852.2/0/groovy-templates-2-5-9-sources-1-
  jar/groovy/text/markup/DelegatingIndentWriter.java

1.59 pkix-ssh 10.1
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   - IDEA is no longer included, its use is deprecated
   - DES is now external, in the OpenSSL library
   - GMP is no longer used, and instead we call BN code from OpenSSL
   - Zlib is now external, in a library
   - The make-ssh-known-hosts script is no longer included
   - TSS has been removed
   - MD5 is now external, in the OpenSSL library
   - RC4 support has been replaced with ARC4 support from OpenSSL
   - Blowfish is now external, in the OpenSSL library

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    * Optimised ANSI C code for the Rijndael cipher (now AES)
* 
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Kibaale Children's Centre* kcc* *Kibaale* *charity*

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

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

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to
prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

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

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

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

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

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


The e-mail address for sending the money to is:
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:
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Finsterruetihof 1
8134 Adliswil
Switzerland

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

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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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b) Use a suitable shared library mechanism for linking with the
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That's all there is to it!
DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.
Author: Julio Merino <jmmv@users.sourceforge.net>

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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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="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
</xsl:template>

</xsl:stylesheet>
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  */opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidJsonException.java
  */opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidCriteriaException.java
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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.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)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
   NTP Version 2 as specified in RFC-1119
19. [20] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21] Dave Hart <davehart@davehart.com> General maintenance, Windows
   port interpolation rewrite
21. [22] Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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
27. [29] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
   author)
   (driver 14 reference clocks), STREAMS modules for PARSE, support
   scripts, syslog cleanup, dynamic interface handling
29. [32] Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to
   comply with NTPv4 specification, ntpq saveconfig
30. [33] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
   modifications, HPUX modifications
31. [34] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
   GPS clock driver
33. [36] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
   code for Version 3 as specified in RFC-1305
   Maintenance
37. [40] David L. Mills <mills@udel.edu> Version 4 foundation,
   precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19,
   22, 36
38. [41] Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42] Jeffrey Mogul <mogul@pa.dec.com> nttrace utility
40. [43] Tom Moore <tmoore@fievel.daytonoh.ncr.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@dhd.org> ARCRON MSF clock driver
43. [47] Rob Neal <sneal@ntp.org> Bancomm refclock and confg/parse code
   maintenance
44. [48] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
   monitoring/trap scripts, statistics file handling
45. [49] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50] Wilfredo Sanchez <wsanchez@apple.com> added support for
   NetInfo
47. [51] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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A `WebApplicationContext` that can be used to bootstrap itself from a contained `ServletWebServerFactory` bean.

This context will create, initialize and run an `WebServer` by searching for a single `ServletWebServerFactory` bean within the `ApplicationContext` itself. The `ServletWebServerFactory` is free to use standard Spring concepts (such as dependency injection, lifecycle callbacks and property placeholder variables).

In addition, any `Servlet` or `Filter` beans defined in the context will be automatically registered with the web server. In the case of a single Servlet bean, the `/` mapping will be used. If multiple Servlet beans are found then the lowercase bean name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will always be mapped to `/'. Filter beans will be mapped to all URLs ('/*').

For more advanced configuration, the context can instead define beans that implement the `ServletContextInitializer` interface (most often `ServletRegistrationBean`s and/or `FilterRegistrationBean`s). To prevent double registration, the use of `ServletContextInitializer` beans will disable automatic Servlet and Filter bean registration.

Although this context can be used directly, most developers should consider using the `AnnotationConfigServletWebServerApplicationContext` or `XmlServletWebServerApplicationContext` variants.

@since 2.0.0
@see AnnotationConfigServletWebServerApplicationContext
@see XmlServletWebServerApplicationContext
@see ServletWebServerFactory

@since 2.0.0
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1.92 log4j-to-slf4j 2.16.0
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/annotations/JsonAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
  jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
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  jar/com/google/gson/internal/$Gson$Types.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/MalformedJsonException.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TimeTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/ConstructorConstructor.java
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jar/com/google/gson/internal/bind/DateTypeAdapter.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Streams.java
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with the Library, with the complete machine-readable "work that
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1.101 lua 5.1.4 15.el7

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1.102 spring-boot-starter-logging

2.2.5.RELEASE
1.102.1 Available under license:
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1.108 eclipse-osgi-services 3.4.0.v20140312-2051
BIRT Runtime

What is it?

BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.
BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.
BIRT Engine is a report engine which generates report from defined report and related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.
You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.

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

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

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign
   xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by ./xxx.rptdesign

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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OW2

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

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The following artifacts are ASL2 licensed.
org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived 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.

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

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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>
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  <xsl:variable name="isc.copyright.text">
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gr at users.sourceforge.net
September 1, 2016
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1.118 spring-beans 5.2.5.RELEASE

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jar/org/springframework/beans/factory/support/ManagedArray.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
jar/org/springframework/beans/factory/support/PropertyComparator.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/SimpleTypeConverter.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/BeanInfoFactory.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.groovy
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java

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

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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-jar/org/springframework/beans/factory/support/ImplicitlyAppearedSingletonException.java
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*/

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* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/config/BeanPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/PropertyValue.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/CachedIntrospectionResults.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/config/BeanDefinition.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/XMLConfigPortalSupport.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/support/SingletonBeanFactory.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/XmlBeanDefinitionReader.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/annotation/Autowired.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/propertyeditors/StringTrimmerPropertyEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/InjectionPoint.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/BeanMetadataElement.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/config/BeanDefinition.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/annotation/Autowired.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
  jar/org/springframework/beans/factory/propertyeditors/StringTrimmerEditor.java
* /opt/ws_local/PERMITS_SQL/1068412377_1594388731.73/0/spring-beans-5-2-5-release-sources-1-
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1.120 dbus-python 1.1.1 9.el7

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1.123 cffi 1.8.3
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1.124 eclipse-update-configurator
3.3.300.v20140518-1928
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BIRT Runtime

What is it?
---------
BIRT is an open source, Eclipse-based reporting system that integrates with
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BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT
chart. It also includes a BIRT Sample Web Viewer.

BIRT Engine is a report engine which generates report from defined report and
related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce
24-bit images, 8-bit images, SWT graphics or SWING graphics.
You can find more information about BIRT and related technology from
http://www.eclipse.org/birt/faq/

The Website for BIRT.
---------------------
You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console
----------------------------------
In order to run the BIRT engine in command you should:
1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   `genReport xxx.rptdesign`
   `xxx.rptdesign` is the design file. if the design file is in the current directory, you have to specify it by `.xxx.rptdesign`

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--------

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BIRT Team
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* /opt/cola/permits/1138400462_1614282132.99/0/org-eclipse-update-configurator-3-3-300-v20140518-1928-sources-4-jar/runtime_readme.txt

1.125 openssl 1.1.1d
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1.128 diffutils 3.3 5.el7
1.128.1 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 *const, char const *const, char const *const);
static void add_regexp (struct regexp_list *const, char const *const);
static void summarize_regexp_list (struct regexp_list *const);
static void specify_style (enum output_style);
static void specify_value (char const **const, char const *const, char const *const);
static void try_help (char const *const, char const *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. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;


#define O_BINARY
/* Use binary I/O when reading and writing data (--binary). */
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[] =
"0123456789abC:dE:f:Hi:IL:nNpQrsS:tTuU:vwW:xYzZ";

/* 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, 'l'},
    {"ignore-space-change", 0, 0, 'b'},
    {"ignore-tab-expansion", 0, 0, 'E'},
    {"ignore-trailing-space", 0, 0, 'Z'},
    {"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
    {"initial-tab", 0, 0, 'T'},
}
/* 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, "");
bindtextdomain (PACKAGE, LOCALEDIR);
textdomain (PACKAGE);
c_stack_action (0);
function_regexp_list.buf = &function_regexp;
ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude ();

/* Decode the options. */
while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
    {
    case 0:
        break;
    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
    if (! ISDIGIT (prev))
        ocontext = c - '0';
    else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
        ocontext = LIN_MAX;
    break;
    case 'a':
        text = true;
    break;
    case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;
    case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
        }
break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
case 'U':
{
    if (optarg)
    {
        numval = strtolmax (optarg, &numend, 10);
        if (*numend)
            try_help ("invalid context length ""%s"", optarg);
        if (LIN_MAX < numval)
            numval = LIN_MAX;
    }
    else
        numval = 3;

    specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
    if (context < numval)
        context = numval;
    explicit_context = true;
}
    break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
            "%%=%cifndef %s
%%<#endif /* ! %s */
%c#ifdef %s
%%>#endif /* %s */
%cifndef %s
%%<#else /* %s */
%%>#endif /* %s */
";
        char *b = xmalloc (sizeof C_ifdef_group_formats + 7 * strlen (optarg) - 14 /* 7*"%s" */ - 8 /* 5*"%%" + 3*"%c" */);
        sprintf (b, C_ifdef_group_formats,
            0,
            7 * strlen (optarg), 7*"%s",
            8, 5*"%%", 3*"%c");
        printf (b, C_ifdef_group_formats,
            0,
            7 * strlen (optarg), 7*"%s",
            8, 5*"%%", 3*"%c");
    }
    break;

optarg, optarg, optarg, optarg, optarg,
for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
    specify_value (&group_format[i], optarg, optarg, optarg);
    optarg, optarg, optarg,
    optarg, optarg, optarg);
    optarg, optarg, optarg,
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    optarg, optarg, optarg,
    optarg, optarg, optarg);
    optarg, optarg, optarg,
if (!pr_program[0])
    try_help ("pagination not supported on this host", NULL);
paginate = true;
#ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
#endif
break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
    else
        fatal ("too many file label options");
    break;

    case 'n':
        specify_style (OUTPUT_RCS);
        break;

    case 'N':
        new_file = true;
        break;

    case 'p':
        show_c_function = true;
        add_regexp (&function_regexp_list, "^[[:alpha:]$]");
        break;

    case 'P':
        unidirectional_new_file = true;
        break;

    case 'q':
        brief = true;
        break;

    case 'r':
        recursive = true;
        break;

    case 's':
        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:
    specify_style(OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value(&line_format[i], optarg, "--line-format");
break;
case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NOIGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
try_help ("invalid tabsize " "%s", optarg);
if (tsize != numval)
    {
        if (tsize)
fatal ("conflicting tabsize options");
        tsize = 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 CHANGED_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
}
    prev = c;
}

if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
    {
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
        specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
#if (defined STAT TIMESPEC || defined STAT TIMESPEC_NS \ 
    || defined HAVE_STRUCT_STAT ST SPARE1)
    time_format = "%Y-%m-%d %H:%M:%S,%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
else
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}
if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context)))
context = ocontext;

if (! tabsize)
tabsize = 8;
if (! width)
    width = 130;
{
    /* Maximize first the half line width, and then the gutter width,
       according to the following constraints:

       1. Two half lines plus a gutter must fit in a line.
       2. If the half line width is nonzero:
           a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
           b. If tabs are not expanded to spaces,
              a half line plus a gutter is an integral number of tabs,
              so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
        sdiff_column2_offset = sdiff_half_width ? off : w;
}

    /* Make the horizon at least as large as the context, so that
       shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
if (line_format[i])
    line_format[i] = "%\n";
    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], 

  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 (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 = realloc (regexps, size);
        }
        else
            reglist->size = newlen;
        }
    }
}
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.  */
        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_("--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_("-r, --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_("--ignore-tab-expansion ignore changes due to tab expansion"),
    N_("--ignore-trailing-space ignore white space at line end"),
    N_("--ignore-space-change ignore changes in the amount of white space"),
    N_("--ignore-all-space ignore all white space"),
    N_("--ignore-blank-lines ignore changes where lines are all blank"),
    N_("--ignore-matching-lines=RE ignore changes where all lines match RE"),
    "",
    N_("--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_(" --GTYPES-group-format=GFMT format GTYPES 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'. GTYPES is LTYPE or 'changed'.")
N_(" GFMT (only) may contain:\n%< lines from FILE1\n%> lines from FILE2\n%= lines common to FILE1 and FILE2\n%[-][WIDTH][.][PREC][doX]LETTER printf-style spec for LETTER\nLETTERS are as follows for new group, lower case for old group:\n F  first line number\n L  last line number\n N number of lines = L-F+1\n E  F-1\n M  L+1\n%(A=B?T:E)  if A equals B then T else E")
N_(" LFMT (only) may contain:\n%L  contents of line\n%l  contents of line, excluding any trailing newline\n%[-][WIDTH][.][PREC][doX]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_("-v, --version output version information and exit")

N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'.")
N_("If --from-file or --to-file is given, there are no restrictions on FILE(s).")
N_("If a FILE is '-', read standard input.")
N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.")
0
}

static void
usage (void)
{
    char const * const *p;

    printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
    printf (_("%s\n\n", (_("Compare FILES line by line.")));

    fputs (_("\nMandatory arguments to long options are mandatory for short options too.\n"), stdout);

    for (p = option_helpmsgid; *p; p++)
    {
        if (!**p)
            putchar ('n');
        else
        {
            char const *msg = _(*p);
            char const *nl;
            while ((nl = strchr (msg, '\n')))
            {
                int msglen = nl + 1 - msg;
                printf (_(" \%s", msglen, msg);
                msg = nl + 1;
            }
        }

        printf (_("%s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
    }

    emit_bug_reporting_address ();
}

/* Set VAR to VALUE, reporting an OPTION error if this is a conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
    if (*var && !STREQ (*var, value))
    {
        error (0, 0, _("conflicting %s option value \"%s\""), option, value);
        try_help (NULL, NULL);
    }
    *var = value;
}

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)


if (output_style != style) {
    if (output_style != OUTPUT_UNSPECIFIED)
        try_help ("conflicting output style options", NULL);
    output_style = style;
}

/* Set the last-modified time of *ST to be the current time. */

static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
    gettime (&STAT_TIMESPEC (st, st_mtim));
#else
    struct timespec t;
    gettime (&t);
    st->st_mtime = t.tv_sec;
    #if defined STAT_TIMESPEC_NS
    STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
    #elif defined HAVE_STRUCT_STAT_ST_SPARE1
    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);  
        }  
    }  
    / * POSIX 1003.1-2001 requires current time for  
    stdin. */  
    set_mtime_to_now (&cmp.file[f].stat);  
  }  
  }  
else if ((no_dereference_symlinks  
        ? lstat (cmp.file[f].name, &cmp.file[f].stat)  
           : stat (cmp.file[f].name, &cmp.file[f].stat))  
        != 0)  
  {  
    cmp.file[f].desc = ERRNO_ENCODE (errno);  
  }  
}
/* Mark files as nonexistent as needed for -N and -P, if they are inaccessible empty regular files (the kind of files that 'patch' creates to indicate nonexistent backups), or if they are top-level files that do not exist but their counterparts do exist. */

for (f = 0; f < 2; f++)
if ((new_file || (f == 0 &&& unidirectional_new_file))
&& (cmp.file[f].desc == UNOPENED
  ? (S_ISREG (cmp.file[f].stat.st_mode)
      && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
      && cmp.file[f].stat.st_size == 0)
  : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
      && ! parent
      && (cmp.file[1 - f].desc == UNOPENED
          || cmp.file[1 - f].desc == STDIN_FILENO))))
  cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
if (cmp.file[f].desc == NONEXISTENT)
{
memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
}

for (f = 0; f < 2; f++)
{
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
    {
errno = e;
    perror_with_name (cmp.file[f].name);
    status = EXIT_TROUBLE;
    }
}

if (status == EXIT_SUCCESS &&& ! parent &&& DIR_P (0) != DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
    use the file in that dir with the other file's basename. */
    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
= find_dir_file_pathname (dir, last_component (fnm));

if (STREQ (fnm, "-"))
  fatal ("cannot compare '-' to a directory");

if ((no_dereference_symlinks
  ? lstat (filename, &cmp.file[dir_arg].stat)
  : stat (filename, &cmp.file[dir_arg].stat))
!= 0)
{
  perror_with_name (filename);
  status = EXIT_TROUBLE;
}
}

if (status != EXIT_SUCCESS)
{
  /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
  && cmp.file[1].desc == NONEXISTENT)
{
  /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
  = (cmp.file[0].desc != NONEXISTENT
      && cmp.file[1].desc != NONEXISTENT
      && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
      && same_file_attributes (&cmp.file[0].stat,
      &cmp.file[1].stat)))
    && no_diff_means_no_output)
{
  /* The two named files are actually the same physical file. We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
  if (output_style == OUTPUT_IFDEF)
    fatal ("-D option not supported with directories");

  /* If both are directories, compare the files in them. */

  if (parent && !recursive)
  {
    /* But don't compare dir contents one level down unless -r was specified. See POSIX 1003.1-2001 for this format. */
    message ("Common subdirectories: %s and %s\n",Open Source Used In SVO 12.3.0 1262


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
            "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
        file_label[0] ? file_label[0] : cmp.file[0].name,
          file_type (&cmp.file[0].stat),
          file_type (&cmp.file[1].stat));

        /* This is a difference. */
      }
status = EXIT_FAILURE;
}
}
else if (S_ISLNK (cmp.file[0].stat.st_mode)
    || S_ISLNK (cmp.file[1].stat.st_mode))
{
    /* We get here only if we use lstat(), not stat(). */
    assert (no_dereference_symlinks);

    if (S_ISLNK (cmp.file[0].stat.st_mode)
        && S_ISLNK (cmp.file[1].stat.st_mode))
    {
        /* Compare the values of the symbolic links. */
        char *link_value[2] = { NULL, NULL };

        for (f = 0; f < 2; f++)
        {
            link_value[f] = xreadlink (cmp.file[f].name);
            if (link_value[f] == NULL)
            {
                perror_with_name (cmp.file[f].name);
                status = EXIT_TROUBLE;
                break;
            }
        }
        if (status == EXIT_SUCCESS)
        {
            if ( ! STREQ (link_value[0], link_value[1]))
            {
                message ("Symbolic links %s and %s differ\n", 
                    cmp.file[0].name, cmp.file[1].name);
                /* This is a difference. */
                status = EXIT_FAILURE;
            }
            else
            {
                /* We have two files that are not to be compared, because 
                 * one of them is a symbolic link and the other one is not. */
                message5 ("File %s is a %s while file %s is a %s\n", 
                    file_label[0] ? file_label[0] : cmp.file[0].name, 
                    file_type (&cmp.file[0].stat), 
                    file_type (&cmp.file[1].stat));
        }
    }
/* This is a difference. */
status = EXIT_FAILURE;
}

else if (files_can_be_treated_as_binary
   && S_ISREG (cmp.file[0].stat.st_mode)
   && S_ISREG (cmp.file[1].stat.st_mode)
   && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ
", 
       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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* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/__about__.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/specifiers.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/_compat.py
* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setuptools-20.10.1/pkg_resources/_vendor/packaging/markers.py
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* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setup.py

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* /opt/ws_local/PERMITS_SQL/1050086594_1591660967.89/0/setuptools-20-10-1-1-tar-gz/setup.py

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Building and Distributing Packages with Setuptools

``Setuptools`` is a collection of enhancements to the Python ``distutils`` (for Python 2.6 and up) that allow developers to more easily build and distribute Python packages, especially ones that have dependencies on other packages.

Packages built and distributed using ``setuptools`` look to the user like ordinary Python packages based on the ``distutils``. Your users don't need to install or even know about setuptools in order to use them, and you don't have to include the entire setuptools package in your distributions. By including just a single `bootstrap module`_ (a 12K .py file), your package will automatically download and install ``setuptools`` if the user is building your package from source and doesn't have a suitable version already installed.

.. _bootstrap module: https://bootstrap.pypa.io/ez_setup.py

Feature Highlights:
* Automatically find/download/install/upgrade dependencies at build time using the `EasyInstall tool <easy_install.html>`_, which supports downloading via HTTP, FTP, Subversion, and SourceForge, and automatically scans web pages linked from PyPI to find download links. (It's the closest thing to CPAN currently available for Python.)

* Create `Python Eggs <http://peak.telecommunity.com/DevCenter/PythonEggs>`_ - a single-file importable distribution format

* Enhanced support for accessing data files hosted in zipped packages.

* Automatically include all packages in your source tree, without listing them individually in setup.py

* Automatically include all relevant files in your source distributions, without needing to create a `MANIFEST.in` file, and without having to force regeneration of the `MANIFEST` file when your source tree changes.

* Automatically generate wrapper scripts or Windows (console and GUI) .exe files for any number of "main" functions in your project. (Note: this is not a py2exe replacement; the .exe files rely on the local Python installation.)

* Transparent Pyrex support, so that your setup.py can list `.pyx` files and still work even when the end-user doesn't have Pyrex installed (as long as you include the Pyrex-generated C in your source distribution)

* Command aliases - create project-specific, per-user, or site-wide shortcut names for commonly used commands and options

* PyPI upload support - upload your source distributions and eggs to PyPI

* Deploy your project in "development mode", such that it's available on `sys.path`, yet can still be edited directly from its source checkout.

* Easily extend the distutils with new commands or `setup()` arguments, and distribute/reuse your extensions for multiple projects, without copying code.

* Create extensible applications and frameworks that automatically discover extensions, using simple "entry points" declared in a project's setup script.

In addition to the PyPI downloads, the development version of `setuptools` is available from the `Python SVN sandbox`_, and in-development versions of the `0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev
Installing `setuptools`  

Please follow the `EasyInstall Installation Instructions` to install the current stable version of setuptools. In particular, be sure to read the section on `Custom Installation Locations` if you are installing anywhere other than Python's `site-packages` directory.

If you want the current in-development version of setuptools, you should first install a stable version, and then run:

```
    ez_setup.py setuptools==dev
```

This will download and install the latest development (i.e. unstable) version of setuptools from the Python Subversion sandbox.

Basic Use

For basic use of setuptools, just import things from setuptools instead of the distutils. Here's a minimal setup script using setuptools:

```
    from setuptools import setup, find_packages
    setup(
        name = "HelloWorld",
        version = "0.1",
        packages = find_packages(),
    )
```

As you can see, it doesn't take much to use setuptools in a project. Run that script in your project folder, alongside the Python packages you have developed.
Invoke that script to produce eggs, upload to PyPI, and automatically include all packages in the directory where the setup.py lives. See the `Command Reference` section below to see what commands you can give to this setup script. For example, to produce a source distribution, simply invoke::

    python setup.py sdist

Of course, before you release your project to PyPI, you'll want to add a bit more information to your setup script to help people find or learn about your project. And maybe your project will have grown by then to include a few dependencies, and perhaps some data files and scripts::

    from setuptools import setup, find_packages
    setup(
        name = "HelloWorld",
        version = "0.1",
        packages = find_packages(),
        scripts = ['say_hello.py'],

        # Project uses reStructuredText, so ensure that the docutils get installed or upgraded on the target machine
        install_requires = ['docutils>=0.3'],

        package_data = {
            # If any package contains *.txt or *.rst files, include them:
            "": ["*.txt", "*.rst"],
            # And include any *.msg files found in the 'hello' package, too:
            'hello': ["*.msg"],
        },

        # metadata for upload to PyPI
        author = "Me",
        author_email = "me@example.com",
        description = "This is an Example Package",
        license = "PSF",
        keywords = 'hello world example examples',
        url = "http://example.com/HelloWorld/",  # project home page, if any

        # could also include long_description, download_url, classifiers, etc.
    )

In the sections that follow, we'll explain what most of these `setup()` arguments do (except for the metadata ones), and the various ways you might use them in your own project(s).

Specifying Your Project's Version
Setuptools can work well with most versioning schemes; there are, however, a few special things to watch out for, in order to ensure that setuptools and EasyInstall can always tell what version of your package is newer than another version. Knowing these things will also help you correctly specify what versions of other projects your project depends on.

A version consists of an alternating series of release numbers and pre-release or post-release tags. A release number is a series of digits punctuated by dots, such as ``2.4`` or ``0.5``. Each series of digits is treated numerically, so releases ``2.1`` and ``2.1.0`` are different ways to spell the same release number, denoting the first subrelease of release 2. But ``2.10`` is the *tenth* subrelease of release 2, and so is a different and newer release from ``2.1`` or ``2.1.0``. Leading zeros within a series of digits are also ignored, so ``2.01`` is the same as ``2.1``, and different from ``2.0.1``.

Following a release number, you can have either a pre-release or post-release tag. Pre-release tags make a version be considered *older* than the version they are appended to. So, revision ``2.4`` is *newer* than revision ``2.4c1``, which in turn is newer than ``2.4b1`` or ``2.4a1``. Postrelease tags make a version be considered *newer* than the version they are appended to. So, revisions like ``2.4-1`` and ``2.4pl3`` are newer than ``2.4``, but are *older* than ``2.4.1`` (which has a higher release number).

A pre-release tag is a series of letters that are alphabetically before "final". Some examples of prerelease tags would include ``alpha``, ``beta``, ``a``, ``c``, ``dev``, and so on. You do not have to place a dot or dash before the prerelease tag if it's immediately after a number, but it's okay to do so if you prefer. Thus, ``2.4c1`` and ``2.4pre1`` and ``2.4preview1`` all represent release candidate 1 of version ``2.4``, and are treated as identical by setuptools.

In addition, there are three special prerelease tags that are treated as if they were the letter "c": "pre", "preview", and "rc". So, version ``2.4rc1``, ``2.4pre1`` and ``2.4preview1`` are all the exact same version as ``2.4c1``, and are treated as identical by setuptools.

A post-release tag is either a series of letters that are alphabetically greater than or equal to "final", or a dash (``-``). Post-release tags are generally used to separate patch numbers, port numbers, build numbers, revision numbers, or date stamps from the release number. For example, the version ``2.4-r1263`` might denote Subversion revision 1263 of a post-release patch of version ``2.4``. Or you might use ``2.4-20051127`` to denote a date-stamped post-release.

Notice that after each pre or post-release tag, you are free to place another release number, followed again by more pre- or post-release tags. For example,
``0.6a9.dev-r41475`` could denote Subversion revision 41475 of the in-development version of the ninth alpha of release 0.6. Notice that ``dev`` is a pre-release tag, so this version is a *lower* version number than ``0.6a9``, which would be the actual ninth alpha of release 0.6. But the ``-r41475`` is a post-release tag, so this version is *newer* than ``0.6a9.dev``.

For the most part, setuptools' interpretation of version numbers is intuitive, but here are a few tips that will keep you out of trouble in the corner cases:

* Don't stick adjoining pre-release tags together without a dot or number between them. Version ``1.9adev`` is the ``adev`` prerelease of ``1.9``, *not* a development pre-release of ``1.9a``. Use ``.dev`` instead, as in ``1.9a.dev``, or separate the prerelease tags with a number, as in ``1.9a0dev``, ``1.9a.dev``, ``1.9a0devv``, and even ``1.9.a.dev`` are identical versions from setuptools' point of view, so you can use whatever scheme you prefer.

* If you want to be certain that your chosen numbering scheme works the way you think it will, you can use the ```pkg_resources.parse_version()``` function to compare different version numbers::

  >>> from pkg_resources import parse_version
  >>> parse_version('1.9.a.dev') == parse_version('1.9a0dev')
  True
  >>> parse_version('2.1-rc2') < parse_version('2.1')
  True
  >>> parse_version('0.6a9dev-r41475') < parse_version('0.6a9')
  True

Once you've decided on a version numbering scheme for your project, you can have setuptools automatically tag your in-development releases with various pre- or post-release tags. See the following sections for more details:

* `Tagging and "Daily Build" or "Snapshot" Releases`_
* `Managing "Continuous Releases" Using Subversion`_
* The ```egg_info``` command

New and Changed ```setup()``` Keywords

The following keyword arguments to ```setup()``` are added or changed by `setuptools`. All of them are optional; you do not have to supply them unless you need the associated ```setuptools``` feature.

``include_package_data``

If set to ```True```, this tells `setuptools` to automatically include any data files it finds inside your package directories that are specified by
your `MANIFEST.in` file. For more information, see the section below on `Including Data Files`.

``exclude_package_data``
A dictionary mapping package names to lists of glob patterns that should be *excluded* from your package directories. You can use this to trim back any excess files included by ``include_package_data``. For a complete description and examples, see the section below on `Including Data Files`.

``package_data``
A dictionary mapping package names to lists of glob patterns. For a complete description and examples, see the section below on `Including Data Files`. You do not need to use this option if you are using ``include_package_data``, unless you need to add e.g. files that are generated by your setup script and build process. (And are therefore not in source control or are files that you don't want to include in your source distribution.)

``zip_safe``
A boolean (True or False) flag specifying whether the project can be safely installed and run from a zip file. If this argument is not supplied, the `bdist_egg` command will have to analyze all of your project's contents for possible problems each time it builds an egg.

``install_requires``
A string or list of strings specifying what other distributions need to be installed when this one is. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``entry_points``
A dictionary mapping entry point group names to strings or lists of strings defining the entry points. Entry points are used to support dynamic discovery of services or plugins provided by a project. See `Dynamic Discovery of Services and Plugins` for details and examples of the format of this argument. In addition, this keyword is used to support `Automatic Script Creation`.

``extras_require``
A dictionary mapping names of “extras” (optional features of your project) to strings or lists of strings specifying what other distributions must be installed to support those features. See the section below on `Declaring Dependencies` for details and examples of the format of this argument.

``setup_requires``
A string or list of strings specifying what other distributions need to be present in order for the *setup script* to run. `setuptools` will attempt to obtain these (even going so far as to download them using `EasyInstall`) before processing the rest of the setup script or commands.
This argument is needed if you are using distutils extensions as part of your build process; for example, extensions that process setup() arguments and turn them into EGG-INFO metadata files.

(Note: projects listed in `setup_requires` will NOT be automatically installed on the system where the setup script is being run. They are simply downloaded to the `.eggs` directory if they're not locally available already. If you want them to be installed, as well as being available when the setup script is run, you should add them to `install_requires` **and** `setup_requires`.)

``dependency_links``
A list of strings naming URLs to be searched when satisfying dependencies. These links will be used if needed to install packages specified by `setup_requires` or `tests_require`. They will also be written into the egg's metadata for use by tools like EasyInstall to use when installing an `.egg` file.

``namespace_packages``
A list of strings naming the project's "namespace packages". A namespace package is a package that may be split across multiple project distributions. For example, Zope 3's "zope" package is a namespace package, because subpackages like "zope.interface" and "zope.publisher" may be distributed separately. The egg runtime system can automatically merge such subpackages into a single parent package at runtime, as long as you declare them in each project that contains any subpackages of the namespace package, and as long as the namespace package's `__init__.py` does not contain any code other than a namespace declaration. See the section below on `Namespace Packages` for more information.

``test_suite``
A string naming a `unittest.TestCase` subclass (or a package or module containing one or more of them, or a method of such a subclass), or naming a function that can be called with no arguments and returns a `unittest.TestSuite` . If the named suite is a module, and the module has an `additional_tests()` function, it is called and the results are added to the tests to be run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite.

Specifying this argument enables use of the `test` command to run the specified test suite, e.g. via `setup.py test`. See the section on the `test` command below for more details.

``tests_require``
If your project's tests need one or more additional packages besides those needed to install it, you can use this option to specify them. It should be a string or list of strings specifying what other distributions need to be present for the package's tests to run. When you run the `test`
command, "setuptools" will attempt to obtain these (even going so far as to download them using "EasyInstall"). Note that these required projects will *not* be installed on the system where the tests are run, but only downloaded to the project's setup directory if they're not already installed locally.

.. _test_loader:

``test_loader``

If you would like to use a different way of finding tests to run than what setuptools normally uses, you can specify a module name and class name in this argument. The named class must be instantiable with no arguments, and its instances must support the `loadTestsFromNames()` method as defined in the Python `unittest` module's `TestLoader` class. Setuptools will pass only one test "name" in the `names` argument: the value supplied for the `test_suite` argument. The loader you specify may interpret this string in any way it likes, as there are no restrictions on what may be contained in a `test_suite` string.

The module name and class name must be separated by a `:`. The default value of this argument is "setuptools.command.test:ScanningLoader". If you want to use the default `unittest` behavior, you can specify "unittest:TestLoader" as your `test_loader` argument instead. This will prevent automatic scanning of submodules and subpackages.

The module and class you specify here may be contained in another package, as long as you use the `tests_require` option to ensure that the package containing the loader class is available when the `test` command is run.

``eager_resources``

A list of strings naming resources that should be extracted together, if any of them is needed, or if any C extensions included in the project are imported. This argument is only useful if the project will be installed as a zipfile, and there is a need to have all of the listed resources be extracted to the filesystem *as a unit*. Resources listed here should be `/-separated paths, relative to the source root, so to list a resource `foo.png` in package `bar.baz`, you would include the string `bar/baz/foo.png` in this argument.

If you only need to obtain resources one at a time, or you don't have any C extensions that access other files in the project (such as data files or shared libraries), you probably do NOT need this argument and shouldn't mess with it. For more details on how this argument works, see the section below on `Automatic Resource Extraction`.

``use_2to3``

Convert the source code from Python 2 to Python 3 with 2to3 during the build process. See :doc:`python3` for more details.
``convert_2to3_doctests``
List of doctest source files that need to be converted with 2to3.
See :doc:`python3` for more details.

``use_2to3_fixers``
A list of modules to search for additional fixers to be used during the 2to3 conversion. See :doc:`python3` for more details.

Using ``find_packages()``

``find_packages()`` takes a source directory and two lists of package name patterns to exclude and include. If omitted, the source directory defaults to the same directory as the setup script. Some projects use a ``src`` or ``lib`` directory as the root of their source tree, and those projects would of course use ``src`` or ``lib`` as the first argument to ``find_packages()``. (And such projects also need something like ``package_dir = {'': 'src'}`` in their ``setup()`` arguments, but that's just a normal distutils thing.)

Anyway, ``find_packages()`` walks the target directory, filtering by inclusion patterns, and finds Python packages (any directory). On Python 3.2 and earlier, packages are only recognized if they include an ``__init__.py`` file. Finally, exclusion patterns are applied to remove matching packages.

Inclusion and exclusion patterns are package names, optionally including wildcards. For example, ``find_packages(exclude=['*.tests'])`` will exclude all packages whose last name part is ``tests``. Or, ``find_packages(exclude=['*.tests', '*.tests.*'])`` will also exclude any subpackages of packages named ``tests``, but it still won't exclude a top-level ``tests`` package or the children thereof. In fact, if you really want no ``tests`` packages at all, you'll need something like this::

    find_packages(exclude=['*.tests', '*.tests.*', 'tests.*', 'tests'])

in order to cover all the bases. Really, the exclusion patterns are intended to cover simpler use cases than this, like excluding a single, specified package and its subpackages.

Regardless of the parameters, the ``find_packages()``
function returns a list of package names suitable for use as the "packages" argument to "setup()", and so is usually the easiest way to set that argument in your setup script. Especially since it frees you from having to remember to modify your setup script whenever your project grows additional top-level packages or subpackages.

Automatic Script Creation

Packaging and installing scripts can be a bit awkward with the distutils. For one thing, there's no easy way to have a script's filename match local conventions on both Windows and POSIX platforms. For another, you often have to create a separate file just for the "main" script, when your actual "main" is a function in a module somewhere. And even in Python 2.4, using the "-m" option only works for actual `.py` files that aren't installed in a package.

``setuptools`` fixes all of these problems by automatically generating scripts for you with the correct extension, and on Windows it will even create an `.exe` file so that users don't have to change their `PATHEXT` settings. The way to use this feature is to define "entry points" in your setup script that indicate what function the generated script should import and run. For example, to create two console scripts called "foo" and "bar", and a GUI script called "baz", you might do something like this::

```python
setup(
    # other arguments here...
    entry_points={
        'console_scripts': [
            'foo = my_package.some_module:main_func',
            'bar = other_module:some_func',
        ],
        'gui_scripts': [
            'baz = my_package_gui:start_func',
        ],
    }
)
```

When this project is installed on non-Windows platforms (using "setup.py install", "setup.py develop", or by using EasyInstall), a set of `foo`, `bar`, and `baz` scripts will be installed that import `main_func` and `some_func` from the specified modules. The functions you specify are called with no arguments, and their return value is passed to `sys.exit()`, so you can return an errorlevel or message to print to stderr.

On Windows, a set of `foo.exe`, `bar.exe`, and `baz.exe` launchers are created, alongside a set of `foo.py`, `bar.py`, and `baz.pyw` files. The `.exe` wrappers find and execute the right version of Python to run the
You may define as many "console script" and "gui script" entry points as you like, and each one can optionally specify "extras" that it depends on, that will be added to `sys.path` when the script is run. For more information on "extras", see the section below on `Declaring Extras`_. For more information on "entry points" in general, see the section below on `Dynamic Discovery of Services and Plugins`_.

"Eggsecutable" Scripts
----------------------

Occasionally, there are situations where it's desirable to make an "`.egg` file directly executable. You can do this by including an entry point such as the following::

```python
setup(
    # other arguments here...
    entry_points = {
        'setuptools.installation': [
            'eggsecutable = my_package.some_module:main_func',
        ]
    }
)
```

Any eggs built from the above setup script will include a short executable prelude that imports and calls `main_func()` from `my_package.some_module`.

The prelude can be run on Unix-like platforms (including Mac and Linux) by invoking the egg with `/bin/sh`, or by enabling execute permissions on the `.egg` file. For the executable prelude to run, the appropriate version of Python must be available via the `PATH` environment variable, under its "long" name. That is, if the egg is built for Python 2.3, there must be a `python2.3` executable present in a directory on `PATH`.

This feature is primarily intended to support ez_setup the installation of setuptools itself on non-Windows platforms, but may also be useful for other projects as well.

IMPORTANT NOTE: Eggs with an "eggsecutable" header cannot be renamed, or invoked via symlinks. They *must* be invoked using their original filename, in order to ensure that, once running, `pkg_resources` will know what project and version is in use. The header script will check this and exit with an error if the `.egg` file has been renamed or is invoked via a symlink that changes its base name.

Declaring Dependencies
`setuptools` supports automatically installing dependencies when a package is installed, and including information about dependencies in Python Eggs (so that package management tools like EasyInstall can use the information).

`setuptools` and `pkg_resources` use a common syntax for specifying a project's required dependencies. This syntax consists of a project's PyPI name, optionally followed by a comma-separated list of "extras" in square brackets, optionally followed by a comma-separated list of version specifiers. A version specifier is one of the operators "`<`, `>`, `<=`, `>=`, `==` or `!=`", followed by a version identifier. Tokens may be separated by whitespace, but any whitespace or nonstandard characters within a project name or version identifier must be replaced with `\-``.

Version specifiers for a given project are internally sorted into ascending version order, and used to establish what ranges of versions are acceptable. Adjacent redundant conditions are also consolidated (e.g. `">1, >2"` becomes `">1"`, and `"<2,<3"` becomes `"<3"`). `"!="` versions are excised from the ranges they fall within. A project's version is then checked for membership in the resulting ranges. (Note that providing conflicting conditions for the same version (e.g. "<2,>=2" or "==2,!=2") is meaningless and may therefore produce bizarre results.)

Here are some example requirement specifiers:

```python
docutils >= 0.3

# comment lines and \ continuations are allowed in requirement strings
BazSpam ==1.1, ==1.2, ==1.3, ==1.4, ==1.5, \
   ==1.6, ==1.7 # and so are line-end comments

PEAK[FastCGI, reST]>=0.5a4

setuptools==0.5a7
```

The simplest way to include requirement specifiers is to use the `install_requires` argument to `setup()`. It takes a string or list of strings containing requirement specifiers. If you include more than one requirement in a string, each requirement must begin on a new line.

This has three effects:

1. When your project is installed, either by using EasyInstall, `setup.py install`, or `setup.py develop`, all of the dependencies not already installed will be located (via PyPI), downloaded, built (if necessary), and installed.
2. Any scripts in your project will be installed with wrappers that verify the availability of the specified dependencies at runtime, and ensure that the correct versions are added to `sys.path` (e.g. if multiple versions have been installed).

3. Python Egg distributions will include a metadata file listing the dependencies.

Note, by the way, that if you declare your dependencies in `setup.py`, you do *not* need to use the `require()` function in your scripts or modules, as long as you either install the project or use `setup.py develop` to do development work on it. (See "Development Mode" below for more details on using `setup.py develop`.)

Dependencies that aren't in PyPI
--------------------------------

If your project depends on packages that aren't registered in PyPI, you may still be able to depend on them, as long as they are available for download as:

- an egg, in the standard distutils `sdist` format,
- a single `.py` file, or
- a VCS repository (Subversion, Mercurial, or Git).

You just need to add some URLs to the `dependency_links` argument to `setup()`.

The URLs must be either:

1. direct download URLs,
2. the URLs of web pages that contain direct download links, or
3. the repository's URL.

In general, it's better to link to web pages, because it is usually less complex to update a web page than to release a new version of your project. You can also use a SourceForge `showfiles.php` link in the case where a package you depend on is distributed via SourceForge.

If you depend on a package that's distributed as a single `.py` file, you must include an `#egg=project-version` suffix to the URL, to give a project name and version number. (Be sure to escape any dashes in the name or version by replacing them with underscores.) EasyInstall will recognize this suffix and automatically create a trivial `setup.py` to wrap the single `.py` file as an egg.

In the case of a VCS checkout, you should also append `#egg=project-version`
in order to identify for what package that checkout should be used. You can append ``@REV`` to the URL's path (before the fragment) to specify a revision. Additionally, you can also force the VCS being used by prepending the URL with a certain prefix. Currently available are:

- ``svn+URL`` for Subversion,
- ``git+URL`` for Git, and
- ``hg+URL`` for Mercurial

A more complete example would be:

``vcs+proto://host/path@revision#egg=project-version``

Be careful with the version. It should match the one inside the project files. If you want to disregard the version, you have to omit it both in the ``requires`` and in the URL's fragment.

This will do a checkout (or a clone, in Git and Mercurial parlance) to a temporary folder and run ``setup.py bdist_egg``.

The ``dependency_links`` option takes the form of a list of URL strings. For example, the below will cause EasyInstall to search the specified page for eggs or source distributions, if the package's dependencies aren't already installed:

```python
setup(  ...

dependency_links = [  
"http://peak.telecommunity.com/snapshots/"
],
)
```

.. _Declaring Extras:

Declaring "Extras" (optional features with their own dependencies)

Sometimes a project has "recommended" dependencies, that are not required for all uses of the project. For example, a project might offer optional PDF output if ReportLab is installed, and reStructuredText support if docutils is installed. These optional features are called "extras", and setuptools allows you to define their requirements as well. In this way, other projects that require these optional features can force the additional requirements to be installed, by naming the desired extras in their ``install_requires``.

For example, let's say that Project A offers optional PDF and reST support::
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': ['ReportLab>=1.2', 'RXP'],
        'reST': ['docutils>=0.3'],
    }
)

As you can see, the `extras_require` argument takes a dictionary mapping names of "extra" features, to strings or lists of strings describing those features' requirements. These requirements will *not* be automatically installed unless another package depends on them (directly or indirectly) by including the desired "extras" in square brackets after the associated project name. (Or if the extras were listed in a requirement spec on the EasyInstall command line.)

Extras can be used by a project's `entry_points` to specify dynamic dependencies. For example, if Project A includes a "rst2pdf" script, it might declare it like this, so that the "PDF" requirements are only resolved if the "rst2pdf" script is run::

setup(
    name="Project-A",
    ...
    entry_points = {
        'console_scripts': [
            'rst2pdf = project_a.tools.pdfgen [PDF]',
            'rst2html = project_a.tools.htmlgen',
            # more script entry points ...
        ],
    }
)

Projects can also use another project's extras when specifying dependencies. For example, if project B needs "project A" with PDF support installed, it might declare the dependency like this::

setup(
    name="Project-B",
    install_requires = ["Project-A[PDF]"],
    ...
)

This will cause ReportLab to be installed along with project A, if project B is installed -- even if project A was already installed. In this way, a project can encapsulate groups of optional "downstream dependencies" under a feature
name, so that packages that depend on it don't have to know what the downstream dependencies are. If a later version of Project A builds in PDF support and no longer needs ReportLab, or if it ends up needing other dependencies besides ReportLab in order to provide PDF support, Project B's setup information does not need to change, but the right packages will still be installed if needed.

Note, by the way, that if a project ends up not needing any other packages to support a feature, it should keep an empty requirements list for that feature in its ``extras_require`` argument, so that packages depending on that feature don't break (due to an invalid feature name). For example, if Project A above builds in PDF support and no longer needs ReportLab, it could change its setup to this::

```python
setup(
    name="Project-A",
    ...
    extras_require = {
        'PDF': [],
        'reST': ['docutils>=0.3'],
    }
)
```

so that Package B doesn't have to remove the ``[PDF]`` from its requirement specifier.

Including Data Files

The distutils have traditionally allowed installation of "data files", which are placed in a platform-specific location. However, the most common use case for data files distributed with a package is for use *by* the package, usually by including the data files in the package directory.

Setuptools offers three ways to specify data files to be included in your packages. First, you can simply use the `include_package_data` keyword, e.g.::

```python
from setuptools import setup, find_packages
setup(
    ...
    include_package_data = True
)
```

This tells setuptools to install any data files it finds in your packages. The data files must be specified via the distutils' `MANIFEST.in` file. (They can also be tracked by a revision control system, using an appropriate plugin. See the section below on `Adding Support for Revision Control`
If you want finer-grained control over what files are included (for example, if you have documentation files in your package directories and want to exclude them from installation), then you can also use the ``package_data`` keyword, e.g.:

```python
from setuptools import setup, find_packages
setup(
    ...  
    package_data = {
        # If any package contains *.txt or *.rst files, include them:
        ': ['*.txt', '*.rst'],
        # And include any *.msg files found in the 'hello' package, too:
        'hello': ['*.msg'],
    }
)`
```

The ``package_data`` argument is a dictionary that maps from package names to lists of glob patterns. The globs may include subdirectory names, if the data files are contained in a subdirectory of the package. For example, if the package tree looks like this:

```
setup.py
src/
mypkg/
    __init__.py
    mypkg.txt
    data/
        somefile.dat
        otherdata.dat
```

The setuptools setup file might look like this:

```python
from setuptools import setup, find_packages
setup(
    ...  
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'': 'src'},      # tell distutils packages are under src
    package_data = {
        # If any package contains *.txt files, include them:
        ': ['*.txt'],
        # And include any *.dat files found in the 'data' subdirectory
        # of the 'mypkg' package, also:
        'mypkg': ['data/*.dat'],
    }
)
```

Notice that if you list patterns in ``package_data`` under the empty string, these patterns are used to find files in every package, even ones that also have their own patterns listed. Thus, in the above example, the ``mypkg.txt`` file gets included even though it's not listed in the patterns for ``mypkg``.

Also notice that if you use paths, you *must* use a forward slash (`/`) as the path separator, even if you are on Windows. Setuptools automatically converts slashes to appropriate platform-specific separators at build time.

(Note: although the ``package_data`` argument was previously only available in setuptools, it was also added to the Python `distutils` package as of Python 2.4; there is `some documentation for the feature` available on the python.org website. If using the setuptools-specific ``include_package_data`` argument, files specified by ``package_data`` will *not* be automatically added to the manifest unless they are listed in the MANIFEST.in file.)

http://docs.python.org/dist/node11.html

Sometimes, the ``include_package_data`` or ``package_data`` options alone aren't sufficient to precisely define what files you want included. For example, you may want to include package README files in your revision control system and source distributions, but exclude them from being installed. So, setuptools offers an ``exclude_package_data`` option as well, that allows you to do things like this::

```python
from setuptools import setup, find_packages
setup(
    ...
    packages = find_packages('src'),  # include all packages under src
    package_dir = {'' : 'src'},  # tell distutils packages are under src
    include_package_data = True,  # include everything in source control

    # ...but exclude README.txt from all packages
    exclude_package_data = { '' : ['README.txt'] },
)
```

The ``exclude_package_data`` option is a dictionary mapping package names to lists of wildcard patterns, just like the ``package_data`` option. And, just as with that option, a key of ''`` will apply the given pattern(s) to all packages. However, any files that match these patterns will be *excluded* from installation, even if they were listed in ``package_data`` or were included as a result of using ``include_package_data``.

In summary, the three options allow you to:

```
``include_package_data``
```

""
Accept all data files and directories matched by ``MANIFEST.in``.

``package_data``
Specify additional patterns to match files and directories that may or may not be matched by ``MANIFEST.in`` or found in source control.

``exclude_package_data``
Specify patterns for data files and directories that should *not* be included when a package is installed, even if they would otherwise have been included due to the use of the preceding options.

NOTE: Due to the way the distutils build process works, a data file that you include in your project and then stop including may be "orphaned" in your project's build directories, requiring you to run ``setup.py clean --all`` to fully remove them. This may also be important for your users and contributors if they track intermediate revisions of your project using Subversion; be sure to let them know when you make changes that remove files from inclusion so they can run ``setup.py clean --all``.

Accessing Data Files at Runtime
--------------------------------

Typically, existing programs manipulate a package's ``__file__`` attribute in order to find the location of data files. However, this manipulation isn't compatible with PEP 302-based import hooks, including importing from zip files and Python Eggs. It is strongly recommended that, if you are using data files, you should use the `Resource Management API` of ``pkg_resources`` to access them. The ``pkg_resources`` module is distributed as part of setuptools, so if you're using setuptools to distribute your package, there is no reason not to use its resource management API. See also `Accessing Package Resources` for a quick example of converting code that uses ``__file__`` to use ``pkg_resources`` instead.

.. _Resource Management API: http://peak.telecommunity.com/DevCenter/PythonEggs#resource-management
.. _Accessing Package Resources: http://peak.telecommunity.com/DevCenter/PythonEggs#accessing-package-resources

Non-Package Data Files
----------------------

The "distutils" normally install general "data files" to a platform-specific location (e.g. `/usr/share`). This feature intended to be used for things like documentation, example configuration files, and the like. "setuptools" does not install these data files in a separate location, however. They are bundled inside the egg file or directory, alongside the Python modules and packages. The data files can also be accessed using the `Resource Management`
API`, by specifying a ``Requirement`` instead of a package name::

    from pkg_resources import Requirement, resource_filename
    filename = resource_filename(Requirement.parse("MyProject"),"sample.conf")

The above code will obtain the filename of the "sample.conf" file in the data root of the "MyProject" distribution.

Note, by the way, that this encapsulation of data files means that you can't actually install data files to some arbitrary location on a user's machine; this is a feature, not a bug. You can always include a script in your distribution that extracts and copies your the documentation or data files to a user-specified location, at their discretion. If you put related data files in a single directory, you can use `resource_filename()` with the directory name to get a filesystem directory that then can be copied with the `shutil` module. (Even if your package is installed as a zipfile, calling `resource_filename()` on a directory will return an actual filesystem directory, whose contents will be that entire subtree of your distribution.)

(Of course, if you're writing a new package, you can just as easily place your data files or directories inside one of your packages, rather than using the distutils' approach. However, if you're updating an existing application, it may be simpler not to change the way it currently specifies these data files.)

Automatic Resource Extraction
---------------------------------

If you are using tools that expect your resources to be "real" files, or your project includes non-extension native libraries or other files that your C extensions expect to be able to access, you may need to list those files in the `eager_resources` argument to `setup()`, so that the files will be extracted together, whenever a C extension in the project is imported.

This is especially important if your project includes shared libraries *other* than distutils-built C extensions, and those shared libraries use file extensions other than `.dll`, `.so`, or `.dylib`, which are the extensions that setuptools 0.6a8 and higher automatically detects as shared libraries and adds to the `native_libs.txt` file for you. Any shared libraries whose names do not end with one of those extensions should be listed as `eager_resources`, because they need to be present in the filesystem when he C extensions that link to them are used.

The `pkg_resources` runtime for compressed packages will automatically extract *all* C extensions and `eager_resources` at the same time, whenever *any* C extension or eager resource is requested via the `resource_filename()` API. (C extensions are imported using `resource_filename()` internally.) This ensures that C extensions will see all of the "real" files that they
expect to see.

Note also that you can list directory resource names in ``eager_resources`` as well, in which case the directory's contents (including subdirectories) will be extracted whenever any C extension or eager resource is requested.

Please note that if you're not sure whether you need to use this argument, you don't! It's really intended to support projects with lots of non-Python dependencies and as a last resort for crufty projects that can't otherwise handle being compressed. If your package is pure Python, Python plus data files, or Python plus C, you really don't need this. You've got to be using either C or an external program that needs “real” files in your project before there's any possibility of ``eager_resources`` being relevant to your project.

Extensible Applications and Frameworks
======================================

.. _Entry Points:

Dynamic Discovery of Services and Plugins
------------------------------------------

``setuptools`` supports creating libraries that "plug in" to extensible applications and frameworks, by letting you register "entry points" in your project that can be imported by the application or framework.

For example, suppose that a blogging tool wants to support plugins that provide translation for various file types to the blog's output format. The framework might define an "entry point group" called ``blogtool.parsers``, and then allow plugins to register entry points for the file extensions they support.

This would allow people to create distributions that contain one or more parsers for different file types, and then the blogging tool would be able to find the parsers at runtime by looking up an entry point for the file extension (or mime type, or however it wants to).

Note that if the blogging tool includes parsers for certain file formats, it can register these as entry points in its own setup script, which means it doesn't have to special-case its built-in formats. They can just be treated the same as any other plugin's entry points would be.

If you're creating a project that plugs in to an existing application or framework, you'll need to know what entry points or entry point groups are defined by that application or framework. Then, you can register entry points in your setup script. Here are a few examples of ways you might register an
`.rst` file parser entry point in the `blogtool.parsers` entry point group, for our hypothetical blogging tool::

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': '.rst = some_module:SomeClass'}
)
```

```python
setup(
    # ...
    entry_points = {'blogtool.parsers': ['.rst = some_module:a_func']}
)
```

```python
setup(
    # ...
    entry_points = ""
    [blogtool.parsers]
    .rst = some.nested.module:SomeClass.some_classmethod [reST]
    "",
    extras_require = dict(reST = "Docutils>=0.3.5")
)
```

The `entry_points` argument to `setup()` accepts either a string with `.ini`-style sections, or a dictionary mapping entry point group names to either strings or lists of strings containing entry point specifiers. An entry point specifier consists of a name and value, separated by an `=` sign. The value consists of a dotted module name, optionally followed by a `:` and a dotted identifier naming an object within the module. It can also include a bracketed list of "extras" that are required for the entry point to be used. When the invoking application or framework requests loading of an entry point, any requirements implied by the associated extras will be passed to `pkg_resources.require()`, so that an appropriate error message can be displayed if the needed package(s) are missing. (Of course, the invoking app or framework can ignore such errors if it wants to make an entry point optional if a requirement isn't installed.)

Defining Additional Metadata
----------------------------

Some extensible applications and frameworks may need to define their own kinds of metadata to include in eggs, which they can then access using the `pkg_resources` metadata APIs. Ordinarily, this is done by having plugin developers include additional files in their `ProjectName.egg-info` directory. However, since it can be tedious to create such files by hand, you may want to create a `distutils` extension that will create the necessary files from arguments to `setup()`, in much the same way that `setuptools` does for many of the `setup()` arguments it adds. See the section below on
'Creating distutils Extensions' for more details, especially the subsection on 
'Adding new EGG-INFO Files'.

"Development Mode"

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

Under normal circumstances, the `distutils` assume that you are going to build a distribution of your project, not use it in its "raw" or "unbuilt" form. If you were to use the `distutils` that way, you would have to rebuild and reinstall your project every time you made a change to it during development.

Another problem that sometimes comes up with the `distutils` is that you may need to do development on two related projects at the same time. You may need to put both projects' packages in the same directory to run them, but need to keep them separate for revision control purposes. How can you do this?

Setuptools allows you to deploy your projects for use in a common directory or staging area, but without copying any files. Thus, you can edit each project's code in its checkout directory, and only need to run build commands when you change a project's C extensions or similarly compiled files. You can even deploy a project into another project's checkout directory, if that's your preferred way of working (as opposed to using a common independent staging area or the site-packages directory).

To do this, use the `setup.py develop` command. It works very similarly to `setup.py install` or the EasyInstall tool, except that it doesn't actually install anything. Instead, it creates a special `.egg-link` file in the deployment directory, that links to your project's source code. And, if your deployment directory is Python's `site-packages` directory, it will also update the `easy-install.pth` file to include your project's source code, thereby making it available on `sys.path` for all programs using that Python installation.

If you have enabled the `use_2to3` flag, then of course the `.egg-link` will not link directly to your source code when run under Python 3, since that source code would be made for Python 2 and not work under Python 3. Instead the `setup.py develop` will build Python 3 code under the `build` directory, and link there. This means that after doing code changes you will have to run `setup.py build` before these changes are picked up by your Python 3 installation.

In addition, the `develop` command creates wrapper scripts in the target script directory that will run your in-development scripts after ensuring that all your `install_requires` packages are available on `sys.path`.

You can deploy the same project to multiple staging areas, e.g. if you have
multiple projects on the same machine that are sharing the same project you're doing development work.

When you're done with a given development task, you can remove the project source from a staging area using ``setup.py develop --uninstall``, specifying the desired staging area if it's not the default.

There are several options to control the precise behavior of the ``develop`` command; see the section on the `develop`_ command below for more details.

Note that you can also apply setuptools commands to non-setuptools projects, using commands like this::

    python -c "import setuptools; execfile('setup.py')" develop

That is, you can simply list the normal setup commands and options following the quoted part.

Distributing a ``setuptools``-based project
==========================================

Using ``setuptools``... Without bundling it!
---------------------------------------------

Your users might not have ``setuptools`` installed on their machines, or even if they do, it might not be the right version. Fixing this is easy; just download `ez_setup.py`_, and put it in the same directory as your ``setup.py`` script. (Be sure to add it to your revision control system, too.) Then add these two lines to the very top of your setup script, before the script imports anything from setuptools:

.. code-block:: python

    import ez_setup
    ez_setup.use_setuptools()

That's it. The ``ez_setup`` module will automatically download a matching version of ``setuptools`` from PyPI, if it isn't present on the target system. Whenever you install an updated version of setuptools, you should also update your projects' `ez_setup.py` files, so that a matching version gets installed on the target machine(s).

By the way, setuptools supports the new PyPI "upload" command, so you can use ``setup.py sdist upload`` or ``setup.py bdist_egg upload`` to upload your source or egg distributions respectively. Your project's current version must be registered with PyPI first, of course; you can use ``setup.py register`` to do that. Or you can do it all in one step, e.g. ``setup.py register sdist```
bdist_egg upload` will register the package, build source and egg distributions, and then upload them both to PyPI, where they'll be easily found by other projects that depend on them.

(By the way, if you need to distribute a specific version of `setuptools`, you can specify the exact version and base download URL as parameters to the `use_setuptools()` function. See the function's docstring for details.)

What Your Users Should Know
----------------------------------------

In general, a setuptools-based project looks just like any distutils-based project -- as long as your users have an internet connection and are installing to `site-packages`, that is. But for some users, these conditions don't apply, and they may become frustrated if this is their first encounter with a setuptools-based project. To keep these users happy, you should review the following topics in your project's installation instructions, if they are relevant to your project and your target audience isn't already familiar with setuptools and `easy_install`.

Network Access
    If your project is using `ez_setup`, you should inform users of the need to either have network access, or to preinstall the correct version of setuptools using the `EasyInstall installation instructions`. Those instructions also have tips for dealing with firewalls as well as how to manually download and install setuptools.

Custom Installation Locations
    You should inform your users that if they are installing your project to somewhere other than the main `site-packages` directory, they should first install setuptools using the instructions for `Custom Installation Locations`, before installing your project.

Your Project's Dependencies
    If your project depends on other projects that may need to be downloaded from PyPI or elsewhere, you should list them in your installation instructions, or tell users how to find out what they are. While most users will not need this information, any users who don't have unrestricted internet access may have to find, download, and install the other projects manually. (Note, however, that they must still install those projects using `easy_install`, or your project will not know they are installed, and your setup script will try to download them again.)

    If you want to be especially friendly to users with limited network access, you may wish to build eggs for your project and its dependencies, making them all available for download from your site, or at least create a page with links to all of the needed eggs. In this way, users with limited
network access can manually download all the eggs to a single directory, then use the `--f` option of `easy_install` to specify the directory to find eggs in. Users who have full network access can just use `--f` with the URL of your download page, and `easy_install` will find all the needed eggs using your links directly. This is also useful when your target audience isn't able to compile packages (e.g. most Windows users) and your package or some of its dependencies include C code.

Revision Control System Users and Co-Developers
Users and co-developers who are tracking your in-development code using a revision control system should probably read this manual's sections regarding such development. Alternately, you may wish to create a quick-reference guide containing the tips from this manual that apply to your particular situation. For example, if you recommend that people use `setup.py develop` when tracking your in-development code, you should let them know that this needs to be run after every update or commit.

Similarly, if you remove modules or data files from your project, you should remind them to run `setup.py clean --all` and delete any obsolete `.pyc` or `.pyo`. (This tip applies to the distutils in general, not just setuptools, but not everybody knows about them; be kind to your users by spelling out your project's best practices rather than leaving them guessing.)

Creating System Packages
Some users want to manage all Python packages using a single package manager, and sometimes that package manager isn’t `easy_install`! Setuptools currently supports `bdist_rpm`, `bdist_wininst`, and `bdist_dumb` formats for system packaging. If a user has a locally-installed "bdist" packaging tool that internally uses the distutils `install` command, it should be able to work with `setuptools`. Some examples of "bdist" formats that this should work with include the `bdist_nsi` and `bdist_msi` formats for Windows.

However, packaging tools that build binary distributions by running `setup.py install` on the command line or as a subprocess will require modification to work with setuptools. They should use the `--single-version-externally-managed` option to the `install` command, combined with the standard `--root` or `--record` options. See the `install command` documentation below for more details. The `bdist_deb` command is an example of a command that currently requires this kind of patching to work with setuptools.

If you or your users have a problem building a usable system package for your project, please report the problem via the mailing list so that either the "bdist" tool in question or setuptools can be modified to resolve the issue.
Setting the ``zip_safe`` flag
----------------------------

For some use cases (such as bundling as part of a larger application), Python packages may be run directly from a zip file. Not all packages, however, are capable of running in compressed form, because they may expect to be able to access either source code or data files as normal operating system files. So, ``setuptools`` can install your project as a zipfile or a directory, and its default choice is determined by the project's ``zip_safe`` flag.

You can pass a True or False value for the ``zip_safe`` argument to the ``setup()`` function, or you can omit it. If you omit it, the ``bdist_egg`` command will analyze your project's contents to see if it can detect any conditions that would prevent it from working in a zipfile. It will output notices to the console about any such conditions that it finds.

Currently, this analysis is extremely conservative: it will consider the project unsafe if it contains any C extensions or datafiles whatsoever. This does *not* mean that the project can't or won't work as a zipfile! It just means that the ``bdist_egg`` authors aren't yet comfortable asserting that the project *will* work. If the project contains no C or data files, and does no ``__file__`` or ``__path__`` introspection or source code manipulation, then there is an extremely solid chance the project will work when installed as a zipfile. (And if the project uses ``pkg_resources`` for all its data file access, then C extensions and other data files shouldn't be a problem at all. See the `Accessing Data Files at Runtime` section above for more information.)

However, if ``bdist_egg`` can't be *sure* that your package will work, but you've checked over all the warnings it issued, and you are either satisfied it *will* work (or if you want to try it for yourself), then you should set ``zip_safe`` to ``True`` in your ``setup()`` call. If it turns out that it doesn't work, you can always change it to ``False``, which will force ``setuptools`` to install your project as a directory rather than as a zipfile.

Of course, the end-user can still override either decision, if they are using EasyInstall to install your package. And, if you want to override for testing purposes, you can just run ``setup.py easy_install --zip-ok .`` or ``setup.py easy_install --always-unzip .`` in your project directory, to install the package as a zipfile or directory, respectively.

In the future, as we gain more experience with different packages and become more satisfied with the robustness of the ``pkg_resources`` runtime, the "zip safety" analysis may become less conservative. However, we strongly recommend that you determine for yourself whether your project functions correctly when installed as a zipfile, correct any problems if you can, and then make an explicit declaration of ``True`` or ``False`` for the ``zip_safe``
flag, so that it will not be necessary for `bdist_egg` or `EasyInstall` to try to guess whether your project can work as a zipfile.

Namespace Packages

Sometimes, a large package is more useful if distributed as a collection of smaller eggs. However, Python does not normally allow the contents of a package to be retrieved from more than one location. "Namespace packages" are a solution for this problem. When you declare a package to be a namespace package, it means that the package has no meaningful contents in its `__init__.py`, and that it is merely a container for modules and subpackages.

The `pkg_resources` runtime will then automatically ensure that the contents of namespace packages that are spread over multiple eggs or directories are combined into a single "virtual" package.

The `namespace_packages` argument to `setup()` lets you declare your project's namespace packages, so that they will be included in your project's metadata. The argument should list the namespace packages that the egg participates in. For example, the ZopeInterface project might do this:

```python
setup(
    # ...
    namespace_packages = ['zope'],
)
```
because it contains a `zope.interface` package that lives in the `zope` namespace package. Similarly, a project for a standalone `zope.publisher` would also declare the `zope` namespace package. When these projects are installed and used, Python will see them both as part of a "virtual" `zope` package, even though they will be installed in different locations.

Namespace packages don't have to be top-level packages. For example, Zope 3's `zope.app` package is a namespace package, and in the future PEAK's `peak.util` package will be too.

Note, by the way, that your project's source tree must include the namespace packages' `__init__.py` files (and the `__init__.py` of any parent packages), in a normal Python package layout. These `__init__.py` files *must* contain the line:

```python
__import__('pkg_resources').declare_namespace(__name__)
```
This code ensures that the namespace package machinery is operating and that the current package is registered as a namespace package.
You must NOT include any other code and data in a namespace package's `__init__.py`. Even though it may appear to work during development, or when projects are installed as `.egg` files, it will not work when the projects are installed using "system" packaging tools -- in such cases the `__init__.py` files will not be installed, let alone executed.

You must include the `declare_namespace()` line in the `__init__.py` of every project that has contents for the namespace package in question, in order to ensure that the namespace will be declared regardless of which project's copy of `__init__.py` is loaded first. If the first loaded `__init__.py` doesn't declare it, it will never be declared, because no other copies will ever be loaded!

TRANSITIONAL NOTE
~~~~~~~~~~~~~~~

Setuptools automatically calls `declare_namespace()` for you at runtime, but future versions may *not*. This is because the automatic declaration feature has some negative side effects, such as needing to import all namespace packages during the initialization of the `pkg_resources` runtime, and also the need for `pkg_resources` to be explicitly imported before any namespace packages work at all. In some future releases, you'll be responsible for including your own declaration lines, and the automatic declaration feature will be dropped to get rid of the negative side effects.

During the remainder of the current development cycle, therefore, setuptools will warn you about missing `declare_namespace()` calls in your `__init__.py` files, and you should correct these as soon as possible before the compatibility support is removed. Namespace packages without declaration lines will not work correctly once a user has upgraded to a later version, so it's important that you make this change now in order to avoid having your code break in the field. Our apologies for the inconvenience, and thank you for your patience.

Tagging and "Daily Build" or "Snapshot" Releases
-----------------------------------------------

When a set of related projects are under development, it may be important to track finer-grained version increments than you would normally use for e.g. "stable" releases. While stable releases might be measured in dotted numbers with alpha/beta/etc. status codes, development versions of a project often need to be tracked by revision or build number or even build date. This is especially true when projects in development need to refer to one another, and therefore may literally need an up-to-the-minute version of something!
To support these scenarios, ``setuptools`` allows you to "tag" your source and egg distributions by adding one or more of the following to the project's "official" version identifier:

* A manually-specified pre-release tag, such as "build" or "dev", or a manually-specified post-release tag, such as a build or revision number (``--tag-build=STRING, -bSTRING``)

* A "last-modified revision number" string generated automatically from Subversion's metadata (assuming your project is being built from a Subversion "working copy") (``--tag-svn-revision, -r``)

* An 8-character representation of the build date (``--tag-date, -d``), as a postrelease tag

You can add these tags by adding ``egg_info`` and the desired options to the command line ahead of the ``sdist`` or ``bdist`` commands that you want to generate a daily build or snapshot for. See the section below on the `egg_info`_ command for more details.

(Also, before you release your project, be sure to see the section above on `Specifying Your Project's Version`_ for more information about how pre- and post-release tags affect how setuptools and EasyInstall interpret version numbers. This is important in order to make sure that dependency processing tools will know which versions of your project are newer than others.)

Finally, if you are creating builds frequently, and either building them in a downloadable location or are copying them to a distribution server, you should probably also check out the `rotate`_ command, which lets you automatically delete all but the N most-recently-modified distributions matching a glob pattern. So, you can use a command line like:

    setup.py egg_info -rbDEV bdist_egg rotate -m.egg -k3

to build an egg whose version info includes 'DEV-rNNNN' (where NNNN is the most recent Subversion revision that affected the source tree), and then delete any egg files from the distribution directory except for the three that were built most recently.

If you have to manage automated builds for multiple packages, each with different tagging and rotation policies, you may also want to check out the `alias`_ command, which would let each package define an alias like ``daily`` that would perform the necessary tag, build, and rotate commands. Then, a simpler script or cron job could just run ``setup.py daily`` in each project directory. (And, you could also define sitewide or per-user default versions of the ``daily`` alias, so that projects that didn't define their own would use the appropriate defaults.)
Generating Source Distributions
---------------------------------

``setuptools`` enhances the distutils' default algorithm for source file selection with pluggable endpoints for looking up files to include. If you are using a revision control system, and your source distributions only need to include files that you're tracking in revision control, use a corresponding plugin instead of writing a ``MANIFEST.in`` file. See the section below on 'Adding Support for Revision Control Systems' for information on plugins.

If you need to include automatically generated files, or files that are kept in an unsupported revision control system, you'll need to create a ``MANIFEST.in`` file to specify any files that the default file location algorithm doesn't catch. See the distutils documentation for more information on the format of the ``MANIFEST.in`` file.

But, be sure to ignore any part of the distutils documentation that deals with ``MANIFEST`` or how it's generated from ``MANIFEST.in``; setuptools shields you from these issues and doesn't work the same way in any case. Unlike the distutils, setuptools regenerates the source distribution manifest file every time you build a source distribution, and it builds it inside the project's ``.egg-info`` directory, out of the way of your main project directory. You therefore need not worry about whether it is up-to-date or not.

Indeed, because setuptools' approach to determining the contents of a source distribution is so much simpler, its ``sdist`` command omits nearly all of the options that the distutils' more complex ``sdist`` process requires. For all practical purposes, you'll probably use only the ``--formats`` option, if you use any option at all.

Making your package available for EasyInstall
----------------------------------------------

If you use the `register` command (`setup.py register`) to register your package with PyPI, that's most of the battle right there. (See the 'docs for the register command' for more details.)

.. _docs for the register command: http://docs.python.org/dist/package-index.html

If you also use the `upload` command to upload actual distributions of your package, that's even better, because EasyInstall will be able to find and download them directly from your project's PyPI page.

However, there may be reasons why you don't want to upload distributions to PyPI, and just want your existing distributions (or perhaps a Subversion checkout) to be used instead.
So here's what you need to do before running the \texttt{register} command. There are three \texttt{setup()} arguments that affect EasyInstall:

\texttt{url} and \texttt{download_url}

These become links on your project's PyPI page. EasyInstall will examine them to see if they link to a package ("primary links"), or whether they are HTML pages. If they're HTML pages, EasyInstall scans all HREF's on the page for primary links.

\texttt{long_description}

EasyInstall will check any URLs contained in this argument to see if they are primary links.

A URL is considered a "primary link" if it is a link to a .tar.gz, .tgz, .zip, .egg, .egg.zip, .tar.bz2, or .exe file, or if it has an \texttt{#egg=project} or \texttt{#egg=project-version} fragment identifier attached to it. EasyInstall attempts to determine a project name and optional version number from the text of a primary link *without* downloading it. When it has found all the primary links, EasyInstall will select the best match based on requested version, platform compatibility, and other criteria.

So, if your \texttt{url} or \texttt{download_url} point either directly to a downloadable source distribution, or to HTML page(s) that have direct links to such, then EasyInstall will be able to locate downloads automatically. If you want to make Subversion checkouts available, then you should create links with either \texttt{#egg=project} or \texttt{#egg=project-version} added to the URL. You should replace \texttt{project} and \texttt{version} with the values they would have in an egg filename. (Be sure to actually generate an egg and then use the initial part of the filename, rather than trying to guess what the escaped form of the project name and version number will be.)

Note that Subversion checkout links are of lower precedence than other kinds of distributions, so EasyInstall will not select a Subversion checkout for downloading unless it has a version included in the \texttt{#egg=} suffix, and it's a higher version than EasyInstall has seen in any other links for your project.

As a result, it's a common practice to use mark checkout URLs with a version of "dev" (i.e., \texttt{#egg=projectname-dev}), so that users can do something like this:

\begin{verbatim}
   easy_install --editable projectname==dev
\end{verbatim}

in order to check out the in-development version of \texttt{projectname}.

Managing "Continuous Releases" Using Subversion
If you expect your users to track in-development versions of your project via Subversion, there are a few additional steps you should take to ensure that things work smoothly with EasyInstall. First, you should add the following to your project's `setup.cfg` file:

```ini
[egg_info]
tag_build = .dev
tag_svn_revision = 1
```

This will tell `setuptools` to generate package version numbers like `1.0a1.dev-r1263`, which will be considered to be an *older* release than `1.0a1`. Thus, when you actually release `1.0a1`, the entire egg infrastructure (including `setuptools`, `pkg_resources`, and EasyInstall) will know that `1.0a1` supersedes any interim snapshots from Subversion, and handle upgrades accordingly.

(Note: the project version number you specify in `setup.py` should always be the *next* version of your software, not the last released version. Alternately, you can leave out the `tag_build=.dev`, and always use the *last* release as a version number, so that your post-1.0 builds are labelled `1.0-r1263`, indicating a post-1.0 patchlevel. Most projects so far, however, seem to prefer to think of their project as being a future version still under development, rather than a past version being patched. It is of course possible for a single project to have both situations, using post-release numbering on release branches, and pre-release numbering on the trunk. But you don't have to make things this complex if you don't want to.)

Commonly, projects releasing code from Subversion will include a PyPI link to their checkout URL (as described in the previous section) with an `#egg=projectname-dev` suffix. This allows users to request EasyInstall to download `projectname==dev` in order to get the latest in-development code. Note that if your project depends on such in-progress code, you may wish to specify your `install_requires` (or other requirements) to include `==dev`, e.g.:

```python
install_requires = ["OtherProject>=0.2a1.dev-r143,==dev"]
```

The above example says, "I really want at least this particular development revision number, but feel free to follow and use an `#egg=OtherProject-dev` link if you find one". This avoids the need to have actual source or binary distribution snapshots of in-development code available, just to be able to depend on the latest and greatest a project has to offer.
A final note for Subversion development: if you are using SVN revision tags as described in this section, it's a good idea to run `setup.py develop` after each Subversion checkin or update, because your project's version number will be changing, and your script wrappers need to be updated accordingly.

Also, if the project's requirements have changed, the `develop` command will take care of fetching the updated dependencies, building changed extensions, etc. Be sure to also remind any of your users who check out your project from Subversion that they need to run `setup.py develop` after every update in order to keep their checkout completely in sync.

Making "Official" (Non-Snapshot) Releases
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

When you make an official release, creating source or binary distributions, you will need to override the tag settings from `setup.cfg`, so that you don't end up registering versions like `foobar-0.7a1.dev-r34832`. This is easy to do if you are developing on the trunk and using tags or branches for your releases - just make the change to `setup.cfg` after branching or tagging the release, so the trunk will still produce development snapshots.

Alternately, if you are not branching for releases, you can override the default version options on the command line, using something like::

```
python setup.py egg_info -RD "" sdist bdist_egg register upload
```

The first part of this command (`egg_info -RD ""`) will override the configured tag information, before creating source and binary eggs, registering the project with PyPI, and uploading the files. Thus, these commands will use the plain version from your `setup.py`, without adding the Subversion revision number or build designation string.

Of course, if you will be doing this a lot, you may wish to create a personal alias for this operation, e.g.::

```
python setup.py alias -u release egg_info -RD ""
```

You can then use it like this::

```
python setup.py release sdist bdist_egg register upload
```

Or of course you can create more elaborate aliases that do all of the above. See the sections below on the `egg_info` and `alias` commands for more ideas.
Distributing Extensions compiled with Pyrex
-------------------------------------------

``setuptools`` includes transparent support for building Pyrex extensions, as long as you define your extensions using ``setuptools.Extension``, *not* ``distutils.Extension``. You must also not import anything from Pyrex in your setup script.

If you follow these rules, you can safely list ``.pyx`` files as the source of your ``Extension`` objects in the setup script. ``setuptools`` will detect at build time whether Pyrex is installed or not. If it is, then ``setuptools`` will use it. If not, then ``setuptools`` will silently change the ``Extension`` objects to refer to the ``.c`` counterparts of the ``.pyx`` files, so that the normal distutils C compilation process will occur.

Of course, for this to work, your source distributions must include the C code generated by Pyrex, as well as your original ``.pyx`` files. This means that you will probably want to include current ``.c`` files in your revision control system, rebuilding them whenever you check changes in for the ``.pyx`` source files. This will ensure that people tracking your project in a revision control system will be able to build it even if they don't have Pyrex installed, and that your source releases will be similarly usable with or without Pyrex.

Command Reference
------------------

.. _alias:

``alias`` - Define shortcuts for commonly used commands
 ========================================================

Sometimes, you need to use the same commands over and over, but you can't necessarily set them as defaults. For example, if you produce both development snapshot releases and "stable" releases of a project, you may want to put the distributions in different places, or use different ``egg_info`` tagging options, etc. In these cases, it doesn't make sense to set the options in a distutils configuration file, because the values of the options changed based on what you're trying to do.

Setuptools therefore allows you to define "aliases" - shortcut names for an arbitrary string of commands and options, using ``setup.py alias aliasname expansion`` , where aliasname is the name of the new alias, and the remainder of the command line supplies its expansion. For example, this command defines a sitewide alias called "daily", that sets various ``egg_info`` tagging options::
Once the alias is defined, it can then be used with other setup commands, e.g.:

```
setup.py daily bdist_egg # generate a daily-build .egg file
setup.py daily sdist    # generate a daily-build source distro
setup.py daily sdist bdist_egg # generate both
```

The above commands are interpreted as if the word `daily` were replaced with `egg_info --tag-svn-revision --tag-build=development`.

Note that setuptools will expand each alias *at most once* in a given command line. This serves two purposes. First, if you accidentally create an alias loop, it will have no effect; you'll instead get an error message about an unknown command. Second, it allows you to define an alias for a command, that uses that command. For example, this (project-local) alias:

```
setup.py alias bdist_egg bdist_egg rotate -k1 -m.egg
```

redefines the `bdist_egg` command so that it always runs the `rotate` command afterwards to delete all but the newest egg file. It doesn't loop indefinitely on `bdist_egg` because the alias is only expanded once when used.

You can remove a defined alias with the `--remove` (or `--r`) option, e.g.:

```
setup.py alias --global-config --remove daily
```

would delete the "daily" alias we defined above.

Aliases can be defined on a project-specific, per-user, or sitewide basis. The default is to define or remove a project-specific alias, but you can use any of the `configuration file options` (listed under the `saveopts` command, below) to determine which distutils configuration file an aliases will be added to (or removed from).

Note that if you omit the "expansion" argument to the `alias` command, you'll get output showing that alias' current definition (and what configuration file it's defined in). If you omit the alias name as well, you'll get a listing of all current aliases along with their configuration file locations.

```
``bdist_egg`` - Create a Python Egg for the project
```

====================================================================
This command generates a Python Egg (`.egg` file) for the project. Python Eggs are the preferred binary distribution format for EasyInstall, because they are cross-platform (for "pure" packages), directly importable, and contain project metadata including scripts and information about the project's dependencies. They can be simply downloaded and added to `sys.path` directly, or they can be placed in a directory on `sys.path` and then automatically discovered by the egg runtime system.

This command runs the `egg_info` command (if it hasn't already run) to update the project's metadata (`.egg-info`) directory. If you have added any extra metadata files to the `.egg-info` directory, those files will be included in the new egg file's metadata directory, for use by the egg runtime system or by any applications or frameworks that use that metadata.

You won't usually need to specify any special options for this command; just use `bdist_egg` and you're done. But there are a few options that may be occasionally useful:

```
--dist-dir=DIR, -d DIR
```
Set the directory where the `.egg` file will be placed. If you don't supply this, then the `--dist-dir` setting of the `bdist` command will be used, which is usually a directory named `dist` in the project directory.

```
--plat-name=PLATFORM, -p PLATFORM
```
Set the platform name string that will be embedded in the egg's filename (assuming the egg contains C extensions). This can be used to override the distutils default platform name with something more meaningful. Keep in mind, however, that the egg runtime system expects to see eggs with distutils platform names, so it may ignore or reject eggs with non-standard platform names. Similarly, the EasyInstall program may ignore them when searching web pages for download links. However, if you are cross-compiling or doing some other unusual things, you might find a use for this option.

```
--exclude-source-files
```
Don't include any modules' `.py` files in the egg, just compiled Python, C, and data files. (Note that this doesn't affect any `.py` files in the EGG-INFO directory or its subdirectories, since for example there may be scripts with a `.py` extension which must still be retained.) We don't recommend that you use this option except for packages that are being bundled for proprietary end-user applications, or for "embedded" scenarios where space is at an absolute premium. On the other hand, if your package is going to be installed and used in compressed form, you might as well exclude the source because Python's `traceback` module doesn't currently understand how to display zipped source code anyway, or how to deal with files that are in a different place from where their code was compiled.
There are also some options you will probably never need, but which are there because they were copied from similar ``bdist`` commands used as an example for creating this one. They may be useful for testing and debugging, however, which is why we kept them:

``--keep-temp, -k``
   Keep the contents of the ``--bdist-dir`` tree around after creating the ``.egg`` file.

``--bdist-dir=DIR, -b DIR``
   Set the temporary directory for creating the distribution. The entire contents of this directory are zipped to create the ``.egg`` file, after running various installation commands to copy the package's modules, data, and extensions here.

``--skip-build``
   Skip doing any "build" commands; just go straight to the install-and-compress phases.

.. _develop:

``develop`` - Deploy the project source in "Development Mode"

This command allows you to deploy your project's source for use in one or more "staging areas" where it will be available for importing. This deployment is done in such a way that changes to the project source are immediately available in the staging area(s), without needing to run a build or install step after each change.

The ``develop`` command works by creating an ``.egg-link`` file (named for the project) in the given staging area. If the staging area is Python's ``site-packages`` directory, it also updates an ``easy-install.pth`` file so that the project is on ``sys.path`` by default for all programs run using that Python installation.

The ``develop`` command also installs wrapper scripts in the staging area (or a separate directory, as specified) that will ensure the project's dependencies are available on ``sys.path`` before running the project's source scripts. And, it ensures that any missing project dependencies are available in the staging area, by downloading and installing them if necessary.

Last, but not least, the ``develop`` command invokes the ``build_ext -i`` command to ensure any C extensions in the project have been built and are up-to-date, and the ``egg_info`` command to ensure the project's metadata is updated (so that the runtime and wrappers know what the project's dependencies
are). If you make any changes to the project's setup script or C extensions, you should rerun the `develop` command against all relevant staging areas to keep the project's scripts, metadata and extensions up-to-date. Most other kinds of changes to your project should not require any build operations or rerunning `develop`, but keep in mind that even minor changes to the setup script (e.g. changing an entry point definition) require you to re-run the `develop` or `test` commands to keep the distribution updated.

Here are some of the options that the `develop` command accepts. Note that they affect the project's dependencies as well as the project itself, so if you have dependencies that need to be installed and you use `--exclude-scripts` (for example), the dependencies' scripts will not be installed either! For this reason, you may want to use EasyInstall to install the project's dependencies before using the `develop` command, if you need finer control over the installation options for dependencies.

`--install-dir=DIR, -d DIR`
Set the installation directory (staging area). If this option is not
directly specified on the command line or in a distutils configuration file, the distutils default installation location is used. Normally, this will be the `site-packages` directory, but if you are using distutils configuration files, setting things like `prefix` or `install_lib`, then those settings are taken into account when computing the default staging area.

``--script-dir=DIR, -s DIR``
Set the script installation directory. If you don't supply this option (via the command line or a configuration file), but you *have* supplied an ``--install-dir``` (via command line or config file), then this option defaults to the same directory, so that the scripts will be able to find their associated package installation. Otherwise, this setting defaults to the location where the distutils would normally install scripts, taking any distutils configuration file settings into account.

``--exclude-scripts, -x``
Don't deploy script wrappers. This is useful if you don't want to disturb existing versions of the scripts in the staging area.

``--always-copy, -a``
Copy all needed distributions to the staging area, even if they are already present in another directory on `sys.path`. By default, if a requirement can be met using a distribution that is already available in a directory on `sys.path`, it will not be copied to the staging area.

``--egg-path=DIR``
Force the generated `.egg-link` file to use a specified relative path to the source directory. This can be useful in circumstances where your installation directory is being shared by code running under multiple platforms (e.g. Mac and Windows) which have different absolute locations for the code under development, but the same *relative* locations with respect to the installation directory. If you use this option when installing, you must supply the same relative path when uninstalling.

In addition to the above options, the `develop` command also accepts all of the same options accepted by `easy_install`. If you've configured any `easy_install` settings in your `setup.cfg` (or other distutils config files), the `develop` command will use them as defaults, unless you override them in a `[develop]` section or on the command line.

``easy_install`` - Find and install packages
============================================
This command runs the `EasyInstall tool <easy_install.html>` for you. It is exactly equivalent to running the `easy_install` command. All command line arguments
following this command are consumed and not processed further by the distutils, so this must be the last command listed on the command line. Please see the EasyInstall documentation for the options reference and usage examples. Normally, there is no reason to use this command via the command line, as you can just use `easy_install` directly. It's only listed here so that you know it's a distutils command, which means that you can:

* create command aliases that use it,
* create distutils extensions that invoke it as a subcommand, and
* configure options for it in your ``setup.cfg`` or other distutils config files.

.. _egg_info:

``egg_info`` - Create egg metadata and set build tags

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

This command performs two operations: it updates a project's ``.egg-info`` metadata directory (used by the ``bdist_egg``, ``develop``, and ``test`` commands), and it allows you to temporarily change a project's version string, to support "daily builds" or "snapshot" releases. It is run automatically by the ``sdist``, ``bdist_egg``, ``develop``, ``register`` and ``test`` commands in order to update the project's metadata, but you can also specify it explicitly in order to temporarily change the project's version string while executing other commands. (It also generates the``.egg-info/SOURCES.txt`` manifest file, which is used when you are building source distributions.)

In addition to writing the core egg metadata defined by ``setuptools`` and required by ``pkg_resources```, this command can be extended to write other metadata files as well, by defining entry points in the ``egg_info.writers`` group. See the section on `Adding new EGG-INFO Files` below for more details. Note that using additional metadata writers may require you to include a ``setup_requires`` argument to ``setup()`` in order to ensure that the desired writers are available on ``sys.path``.

Release Tagging Options

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

The following options can be used to modify the project's version string for all remaining commands on the setup command line. The options are processed in the order shown, so if you use more than one, the requested tags will be added in the following order:

``--tag-build=NAME, -b NAME``

Append NAME to the project's version string. Due to the way setuptools processes "pre-release" version suffixes beginning with the letters "a"
through "e" (like "alpha", "beta", and "candidate"), you will usually want to use a tag like ".build" or ".dev", as this will cause the version number to be considered *lower* than the project's default version. (If you want to make the version number *higher* than the default version, you can always leave off --tag-build and then use one or both of the following options.)

If you have a default build tag set in your `setup.cfg`, you can suppress it on the command line using `--tag-build=''` as an argument to the `egg_info` command.

``--tag-svn-revision, -r``

If the current directory is a Subversion checkout (i.e. has a `.svn` subdirectory, this appends a string of the form "-rNNNN" to the project's version string, where NNNN is the revision number of the most recent modification to the current directory, as obtained from the `svn info` command.

If the current directory is not a Subversion checkout, the command will look for a `PKG-INFO` file instead, and try to find the revision number from that, by looking for a "-rNNNN" string at the end of the version number. (This is so that building a package from a source distribution of a Subversion snapshot will produce a binary with the correct version number.)

If there is no `PKG-INFO` file, or the version number contained therein does not end with "-r" and a number, then "-r0" is used.

``--no-svn-revision, -R``

Don't include the Subversion revision in the version number. This option is included so you can override a default setting put in `setup.cfg`.

``--tag-date, -d``

Add a date stamp of the form "-YYYYMMDD" (e.g. "-20050528") to the project's version number.

``--no-date, -D``

Don't include a date stamp in the version number. This option is included so you can override a default setting in `setup.cfg`.

(Note: Because these options modify the version number used for source and binary distributions of your project, you should first make sure that you know how the resulting version numbers will be interpreted by automated tools like EasyInstall. See the section above on 'Specifying Your Project's Version' for an explanation of pre- and post-release tags, as well as tips on how to choose and verify a versioning scheme for your project.)
For advanced uses, there is one other option that can be set, to change the location of the project's `.egg-info` directory. Commands that need to find the project's source directory or metadata should get it from this setting:

Other ``.egg_info` Options
---------------------------

``--egg-base=SOURCEDIR, -e SOURCEDIR``

Specify the directory that should contain the .egg-info directory. This should normally be the root of your project's source tree (which is not necessarily the same as your project directory; some projects use a `"src"` or `"lib"` subdirectory as the source root). You should not normally need to specify this directory, as it is normally determined from the `"package_dir"` argument to the `"setup()"` function, if any. If there is no `"package_dir"` set, this option defaults to the current directory.

```.egg_info`` Examples
------------------------

Creating a dated "nightly build" snapshot egg::

    python setup.py egg_info --tag-date --tag-build=DEV bdist_egg

Creating and uploading a release with no version tags, even if some default tags are specified in `"setup.cfg``::

    python setup.py egg_info -RDb "" sdist bdist_egg register upload

(Notice that `"egg_info"` must always appear on the command line *before* any commands that you want the version changes to apply to.)

.. _install command:

``install`` - Run `"easy_install`` or old-style installation

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

The setuptools `"install`` command is basically a shortcut to run the `"easy_install`` command on the current project. However, for convenience in creating "system packages" of setuptools-based projects, you can also use this option:

``--single-version-externally-managed``

This boolean option tells the `"install`` command to perform an "old style" installation, with the addition of an `".egg-info`` directory so that the installed project will still have its metadata available and operate
normally. If you use this option, you *must* also specify the `--root` or `--record` options (or both), because otherwise you will have no way to identify and remove the installed files.

This option is automatically in effect when `install` is invoked by another distutils command, so that commands like `bdist_wininst` and `bdist_rpm` will create system packages of eggs. It is also automatically in effect if you specify the `--root` option.

``install_egg_info`` - Install an `.egg-info` directory in `site-packages`
==============================================================================
Setuptools runs this command as part of `install` operations that use the `--single-version-externally-managed` options. You should not invoke it directly; it is documented here for completeness and so that distutils extensions such as system package builders can make use of it. This command has only one option:

``--install-dir=DIR, -d DIR``

The parent directory where the `.egg-info` directory will be placed. Defaults to the same as the `--install-dir` option specified for the `install_lib` command, which is usually the system `site-packages` directory.

This command assumes that the `egg_info` command has been given valid options via the command line or `setup.cfg`, as it will invoke the `egg_info` command and use its options to locate the project's source `.egg-info` directory.

.. _rotate:

``rotate`` - Delete outdated distribution files
==============================================================================
As you develop new versions of your project, your distribution (`dist`) directory will gradually fill up with older source and/or binary distribution files. The `rotate` command lets you automatically clean these up, keeping only the N most-recently modified files matching a given pattern.

``--match=PATTERNLIST, -m PATTERNLIST``

Comma-separated list of glob patterns to match. This option is *required*. The project name and `*` is prepended to the supplied patterns, in order to match only distributions belonging to the current project (in case you have a shared distribution directory for multiple projects). Typically, you will use a glob pattern like `*.zip` or `*.egg` to match files of the specified type. Note that each supplied pattern is treated as a
distinct group of files for purposes of selecting files to delete.

``--keep=COUNT, -k COUNT``
Number of matching distributions to keep. For each group of files
identified by a pattern specified with the ``--match`` option, delete all
but the COUNT most-recently-modified files in that group. This option is
*required*.

``--dist-dir=DIR, -d DIR``
Directory where the distributions are. This defaults to the value of the
``bdist`` command's ``--dist-dir`` option, which will usually be the
project's ``dist`` subdirectory.

**Example 1**: Delete all .tar.gz files from the distribution directory, except
for the 3 most recently modified ones::

    setup.py rotate --match=.tar.gz --keep=3

**Example 2**: Delete all Python 2.3 or Python 2.4 eggs from the distribution
directory, except the most recently modified one for each Python version::

    setup.py rotate --match=-py2.3*.egg,-py2.4*.egg --keep=1

.. _saveopts:

``saveopts`` - Save used options to a configuration file
===============================================
Finding and editing `distutils` configuration files can be a pain, especially
since you also have to translate the configuration options from command-line
form to the proper configuration file format. You can avoid these hassles by
using the `saveopts` command. Just add it to the command line to save the
options you used. For example, this command builds the project using
the `mingw32` C compiler, then saves the --compiler setting as the default
for future builds (even those run implicitly by the `install` command)::

    setup.py build --compiler=mingw32 saveopts

The `saveopts` command saves all options for every command specified on the
command line to the project's local `setup.cfg` file, unless you use one of
the `configuration file options` to change where the options are saved. For
example, this command does the same as above, but saves the compiler setting
to the site-wide (global) distutils configuration::

    setup.py build --compiler=mingw32 saveopts -g

Note that it doesn't matter where you place the `saveopts` command on the
command line; it will still save all the options specified for all commands. For example, this is another valid way to spell the last example:

    setup.py saveopts -g build --compiler=mingw32

Note, however, that all of the commands specified are always run, regardless of where ``saveopts`` is placed on the command line.

Configuration File Options
--------------------------

Normally, settings such as options and aliases are saved to the project's local ``setup.cfg`` file. But you can override this and save them to the global or per-user configuration files, or to a manually-specified filename.

``--global-config, -g``
Save settings to the global ``distutils.cfg`` file inside the ``distutils`` package directory. You must have write access to that directory to use this option. You also can't combine this option with ``-u`` or ``-f``.

``--user-config, -u``
Save settings to the current user's ``~/.pydistutils.cfg`` (POSIX) or ``$HOME/pydistutils.cfg`` (Windows) file. You can't combine this option with ``-g`` or ``-f``.

``--filename=FILENAME, -f FILENAME``
Save settings to the specified configuration file to use. You can't combine this option with ``-g`` or ``-u``. Note that if you specify a non-standard filename, the ``distutils`` and ``setuptools`` will not use the file's contents. This option is mainly included for use in testing.

These options are used by other ``setuptools`` commands that modify configuration files, such as the `alias`_ and `setopt`_ commands.

.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file
==================================================================

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to ``mingw32`` (using long option names):

```bash
.. _setopt:

``setopt`` - Set a distutils or setuptools option in a config file
==================================================================

This command is mainly for use by scripts, but it can also be used as a quick and dirty way to change a distutils configuration option without having to remember what file the options are in and then open an editor.

**Example 1**. Set the default C compiler to "mingw32" (using long option names):

```bash
    setup.py saveopts -g build --compiler=mingw32
```
**Example 2**. Remove any setting for the distutils default package installation directory (short option names):

```bash
setup.py setopt -c install -o install_lib -r
```

Options for the ``setopt`` command:

```
``--command=COMMAND, -c COMMAND``
Command to set the option for. This option is required.

```
``--option=OPTION, -o OPTION``
The name of the option to set. This option is required.

```
``--set-value=VALUE, -s VALUE``
The value to set the option to. Not needed if ``--remove`` is set.

```
``--remove, -r``
Remove (unset) the option, instead of setting it.
```

In addition to the above options, you may use any of the `configuration file options` (listed under the `saveopts` command, above) to determine which distutils configuration file the option will be added to (or removed from).

.. _test:

```
``test`` - Build package and run a unittest suite
```

When doing test-driven development, or running automated builds that need testing before they are deployed for downloading or use, it's often useful to be able to run a project's unit tests without actually deploying the project anywhere, even using the `develop` command. The `test` command runs a project's unit tests without actually deploying it, by temporarily putting the project's source on `sys.path`, after first running `build_ext -i` and `egg_info` to ensure that any C extensions and project metadata are up-to-date.

To use this command, your project's tests must be wrapped in a `unittest` test suite by either a function, a `TestCase` class or method, or a module or package containing `TestCase` classes. If the named suite is a module, and the module has an `additional_tests()` function, it is called and the result (which must be a `unittest.TestSuite`) is added to the tests to be
run. If the named suite is a package, any submodules and subpackages are recursively added to the overall test suite. (Note: if your project specifies a `test_loader`, the rules for processing the chosen `test_suite` may differ; see the `test_loader` documentation for more details.)

Note that many test systems including `doctest` support wrapping their non-`unittest` tests in `TestSuite` objects. So, if you are using a test package that does not support this, we suggest you encourage its developers to implement test suite support, as this is a convenient and standard way to aggregate a collection of tests to be run under a common test harness.

By default, tests will be run in the "verbose" mode of the `unittest` package's text test runner, but you can get the "quiet" mode (just dots) if you supply the "-q" or "--quiet" option, either as a global option to the setup script (e.g. `setup.py -q test`) or as an option for the `test` command itself (e.g. `setup.py test -q`). There is one other option available:

```
--test-suite=NAME, -s NAME
```

Specify the test suite (or module, class, or method) to be run (e.g. `some_module.test_suite`). The default for this option can be set by giving a `test_suite` argument to the `setup()` function, e.g.:

```python
setup(  
    # ...  
    test_suite = "my_package.tests.test_all"  
)
```

If you did not set a `test_suite` in your `setup()` call, and do not provide a `--test-suite` option, an error will occur.

.. _upload:

```
upload` - Upload source and/or egg distributions to PyPI
=================================================================================================================
```

The `upload` command is implemented and documented <https://docs.python.org/3.1/distutils/uploading.html>_ in distutils.

Setuptools augments the `upload` command with support for `keyring <https://pypi.python.org/pypi/keyring>_`, allowing the password to be stored in a secure location and not in plaintext in the .pypirc file. To use keyring, first install keyring and set the password for the relevant repository, e.g.:
python -m keyring set <repository> <username>
Password for `<username>` in `<repository>`: ********

Then, in .pypirc, set the repository configuration as normal, but omit the password. Thereafter, uploads will use the password from the keyring.

New in 20.1: Added keyring support.

``upload_docs`` - Upload package documentation to PyPI

PyPI now supports uploading project documentation to the dedicated URL https://pythonhosted.org/<project>/.

The `upload_docs` command will create the necessary zip file out of a documentation directory and will post to the repository.

Note that to upload the documentation of a project, the corresponding version must already be registered with PyPI, using the distutils `register` command -- just like the `upload` command.

Assuming there is an `Example` project with documentation in the subdirectory `docs`, e.g.::

Example/
|-- example.py
|-- setup.cfg
|-- setup.py
|-- docs
 ||-- build
 | | `-- html
 | | | | |-- index.html
 | | | | `-- tips_tricks.html
 | |-- conf.py
 ||-- index.txt
 | `-- tips_tricks.txt

You can simply pass the documentation directory path to the `upload_docs` command::

    python setup.py upload_docs --upload-dir=docs/build/html

If no `--upload-dir` is given, `upload_docs` will attempt to run the `build_sphinx` command to generate uploadable documentation.

For the command to become available, `Sphinx <http://sphinx.pocoo.org/>`_
must be installed in the same environment as distribute.

As with other `setuptools`-based commands, you can define useful defaults in the `setup.cfg` of your Python project, e.g.:

```ini
[upload_docs]
upload-dir = docs/build/html
```

The `upload_docs` command has the following options:

`--upload-dir`
The directory to be uploaded to the repository.

`--show-response`
Display the full response text from server; this is useful for debugging PyPI problems.

`--repository=URL, -r URL`
The URL of the repository to upload to. Defaults to https://pypi.python.org/pypi (i.e., the main PyPI installation).

Extending and Reusing Setuptools
---------------------------------

Creating `distutils` Extensions
================================

It can be hard to add new commands or setup arguments to the distutils. But the `setuptools` package makes it a bit easier, by allowing you to distribute a distutils extension as a separate project, and then have projects that need the extension just refer to it in their `setup_requires` argument.

With `setuptools`, your distutils extension projects can hook in new commands and `setup()` arguments just by defining "entry points". These are mappings from command or argument names to a specification of where to import a handler from. (See the section on `Dynamic Discovery of Services and Plugins` above for some more background on entry points.)

Adding Commands
---------------

You can add new `setup` commands by defining entry points in the `distutils.commands` group. For example, if you wanted to add a `foo`
command, you might add something like this to your distutils extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
    },
)
```

(Assuming, of course, that the `foo` class in `mypackage.some_module` is a `setuptools.Command` subclass.)

Once a project containing such entry points has been activated on `sys.path`, (e.g. by running "install" or "develop" with a site-packages installation directory) the command(s) will be available to any `setuptools`-based setup scripts. It is not necessary to use the `--command-packages` option or to monkeypatch the `distutils.command` package to install your commands; `setuptools` automatically adds a wrapper to the distutils to search for entry points in the active distributions on `sys.path`. In fact, this is how setuptools' own commands are installed: the setuptools project's setup script defines entry points for them!

Adding `setup()` Arguments
--------------------------

Sometimes, your commands may need additional arguments to the `setup()` call. You can enable this by defining entry points in the `distutils.setup_keywords` group. For example, if you wanted a `setup()` argument called `bar_baz`, you might add something like this to your distutils extension project's setup script:

```python
setup(
    # ...
    entry_points = {
        "distutils.commands": [
            "foo = mypackage.some_module:foo",
        ],
        "distutils.setup_keywords": [
            "bar_baz = mypackage.some_module:validate_bar_baz",
        ],
    },
)
```

The idea here is that the entry point defines a function that will be called
to validate the `'setup()'` argument, if it's supplied. The `'Distribution'`
object will have the initial value of the attribute set to `'None'`, and the
validation function will only be called if the `'setup()'` call sets it to
a non-None value. Here's an example validation function::

```python
def assert_bool(dist, attr, value):
    """Verify that value is True, False, 0, or 1""
    if bool(value) != value:
        raise DistutilsSetupError(
            "%r must be a boolean value (got %r)" % (attr, value)
        )
```

Your function should accept three arguments: the `'Distribution` object,
the attribute name, and the attribute value. It should raise a
`DistutilsSetupError` (from the `distutils.errors` module) if the argument
is invalid. Remember, your function will only be called with non-None values,
and the default value of arguments defined this way is always None. So, your
commands should always be prepared for the possibility that the attribute will
be `'None` when they access it later.

If more than one active distribution defines an entry point for the same
`setup()` argument, *all* of them will be called. This allows multiple
distutils extensions to define a common argument, as long as they agree on
what values of that argument are valid.

Also note that as with commands, it is not necessary to subclass or monkeypatch
the distutils `'Distribution` class in order to add your arguments; it is
sufficient to define the entry points in your extension, as long as any setup
script using your extension lists your project in its `'setup_requires` argument.

Adding new EGG-INFO Files
-------------------------

Some extensible applications or frameworks may want to allow third parties to
develop plugins with application or framework-specific metadata included in
the plugins' EGG-INFO directory, for easy access via the `pkg_resources` metadata API. The easiest way to allow this is to create a distutils extension
to be used from the plugin projects' setup scripts (via `'setup_requires`)
that defines a new setup keyword, and then uses that data to write an EGG-INFO
file when the `'egg_info` command is run.

The `'egg_info` command looks for extension points in an `'egg_info.writers`
group, and calls them to write the files. Here's a simple example of a
distutils extension defining a setup argument `'foo_bar`', which is a list of
lines that will be written to `'foo_bar.txt` in the EGG-INFO directory of any
project that uses the argument::

```python
setup(
    # ...
    entry_points = {
        "distutils.setup_keywords": [
            "foo_bar = setuptools.dist:assert_string_list",
        ],
        "egg_info.writers": [
            "foo_bar.txt = setuptools.command.egg_info:write_arg",
        ],
    },
)

This simple example makes use of two utility functions defined by setuptools for its own use: a routine to validate that a setup keyword is a sequence of strings, and another one that looks up a setup argument and writes it to a file. Here's what the writer utility looks like:

```python
def write_arg(cmd, basename, filename):
    argname = os.path.splitext(basename)[0]
    value = getattr(cmd.distribution, argname, None)
    if value is not None:
        value = '
'.join(value)+'
    cmd.write_or_delete_file(argname, filename, value)
```

As you can see, `egg_info.writers` entry points must be a function taking three arguments: a `egg_info` command instance, the basename of the file to write (e.g. `foo_bar.txt`), and the actual full filename that should be written to.

In general, writer functions should honor the command object's `dry_run` setting when writing files, and use the `distutils.log` object to do any console output. The easiest way to conform to this requirement is to use the command's `write_file()`, `delete_file()`, and `write_or_delete_file()` methods exclusively for your file operations. See those methods' docstrings for more details.

Adding Support for Revision Control Systems
---------------------------------------------

If the files you want to include in the source distribution are tracked using Git, Mercurial or SVN, you can use the following packages to achieve that:

- Git and Mercurial: `setuptools_scm <https://pypi.python.org/pypi/setuptools_scm>`_
- SVN: `setuptools_svn <https://pypi.python.org/pypi/setuptools_svn>`_

If you would like to create a plugin for `setuptools` to find files tracked
by another revision control system, you can do so by adding an entry point to the `"setuptools.file_finders"` group. The entry point should be a function accepting a single directory name, and should yield all the filenames within that directory (and any subdirectories thereof) that are under revision control.

For example, if you were going to create a plugin for a revision control system called "foobart", you would write a function something like this:

```python
.. code-block:: python

    def find_files_for_foobart(dirname):
        # loop to yield paths that start with `dirname`
```

And you would register it in a setup script using something like this:

```python
entry_points = {
    "setuptools.file_finders": [
        "foobart = my_foobart_module:find_files_for_foobart"
    ]
}
```

Then, anyone who wants to use your plugin can simply install it, and their local setuptools installation will be able to find the necessary files.

It is not necessary to distribute source control plugins with projects that simply use the other source control system, or to specify the plugins in `"setup_requires"`. When you create a source distribution with the `"sdist"` command, setuptools automatically records what files were found in the `"SOURCES.txt"` file. That way, recipients of source distributions don't need to have revision control at all. However, if someone is working on a package by checking out with that system, they will need the same plugin(s) that the original author is using.

A few important points for writing revision control file finders:

* Your finder function MUST return relative paths, created by appending to the passed-in directory name. Absolute paths are NOT allowed, nor are relative paths that reference a parent directory of the passed-in directory.

* Your finder function MUST accept an empty string as the directory name, meaning the current directory. You MUST NOT convert this to a dot; just yield relative paths. So, yielding a subdirectory named `"some/dir"` under the current directory should NOT be rendered as `"./some/dir"` or `"/somewhere/some/dir"`, but *always* as simply `"some/dir"

* Your finder function SHOULD NOT raise any errors, and SHOULD deal gracefully with the absence of needed programs (i.e., ones belonging to the revision
control system itself. It *may*, however, use ``distutils.log.warn()`` to inform the user of the missing program(s).

Subclassing ``Command``
-----------------------

Sorry, this section isn't written yet, and neither is a lot of what's below this point.

XXX

Reusing ``setuptools`` Code
===========================
``ez_setup``
------------

``setuptools.archive_util``
---------------------------
XXX

``setuptools.sandbox``
----------------------
XXX

``setuptools.package_index``
----------------------------
XXX

Mailing List and Bug Tracker
============================

Please use the `distutils-sig mailing list` for questions and discussion about setuptools, and the `setuptools bug tracker` ONLY for issues you have confirmed via the list are actual bugs, and which you have reduced to a minimal set of steps to reproduce.
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/* tests/s4u2proxy.c - S4U2Proxy test harness */
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/*
 Usage: s4u2proxy evccname targetname
 *
 evccname contains an evidence ticket. The default ccache contains a TGT for
 the intermediate service. The default keytab contains a key for the
 intermediate service. An S4U2Proxy request is made to get a ticket from
 evccname's default principal to the target service. The resulting cred is
 stored in the default ccache.
 */
/* *-.*: mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*: */
/* tests/shlib/t_loader.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
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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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/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/* kdc_audit.c - Interface for KDC audit plugins. */
/*
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 *
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 * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
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 * OF THE POSSIBILITY OF SUCH DAMAGE.
 */
/* tests/plugorder.c - Test harness to display the order of loaded plugins */
/*
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 *
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*/

/*
 * This file registers a few dummy built-in pwqual modules, then prints out the order of pwqual modules returned by k5_plugin_load_all. The choice of the pwqual interface is mostly arbitrary; it is an interface which libkrb5 itself doesn't use, for which we have a test module.
*/

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/* wconfig.c */

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 */

/*
 * Program to take the place of the configure shell script under DOS.
 * The makefile.in files are constructed in such a way that all this program needs to do is uncomment lines beginning ##DOS by removing the first 5 characters of the line. This will allow lines like:
 * ##DOS!include win-pre.in to become: !include win-pre.in
 *
 * We also turn any line beginning with '@' into a blank line.
 *
 * If a config directory is specified, then the output will be start with config\pre.in, then the filtered stdin text, and will end with config\post.in.
 *
 * Syntax: wconfig [options] [config_directory] <input_file >output_file
 *
 */
1.135 pep8 1.7.0

1.135.1 Available under license:

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```
Metadata-Version: 1.1
Name: pep8
Version: 1.7.0
Summary: Python style guide checker
Home-page: http://pep8.readthedocs.org/
Author: Johann C. Rocholl
Author-email: johann@rocholl.net
License: Expat license
Description: pep8 - Python style guide checker

pep8 is a tool to check your Python code against some of the style
conventions in `PEP 8`_.

.. _PEP 8: http://www.python.org/dev/peps/pep-0008/
```
Features
--------

* Plugin architecture: Adding new checks is easy.

* Parseable output: Jump to error location in your editor.

* Small: Just one Python file, requires only stdlib. You can use just the `pep8.py` file for this purpose.

* Comes with a comprehensive test suite.

Installation
------------

You can install, upgrade, uninstall `pep8.py` with these commands:

```
$ pip install pep8
$ pip install --upgrade pep8
$ pip uninstall pep8
```

There's also a package for Debian/Ubuntu, but it's not always the latest version.

Example usage and output
------------------------

```
$ pep8 --first optparse.py
optparse.py:69:11: E401 multiple imports on one line
optparse.py:77:1: E302 expected 2 blank lines, found 1
optparse.py:88:5: E301 expected 1 blank line, found 0
optparse.py:222:34: W602 deprecated form of raising exception
optparse.py:347:31: E211 whitespace before '('
optparse.py:357:17: E201 whitespace after '{'
optparse.py:472:29: E221 multiple spaces before operator
optparse.py:544:21: W601 .has_key() is deprecated, use 'in'
```

You can also make `pep8.py` show the source code for each error, and even the relevant text from PEP 8:

```
$ pep8 --show-source --show-pep8 testsuite/E40.py
testsuite/E40.py:2:10: E401 multiple imports on one line
import os, sys
^ Imports should usually be on separate lines.
```
Okay: import os
import sys
E401: import sys, os

Or you can display how often each error was found:

```
$ pep8 --statistics -qq Python-2.5/Lib
232   E201 whitespace after '['
599   E202 whitespace before ')
631   E203 whitespace before ','
842   E211 whitespace before '('
2531  E221 multiple spaces before operator
4473  E301 expected 1 blank line, found 0
4006  E302 expected 2 blank lines, found 1
165   E303 too many blank lines (4)
325   E401 multiple imports on one line
3615  E501 line too long (82 characters)
612   W601 .has_key() is deprecated, use 'in'
1188  W602 deprecated form of raising exception
```

Links
-----

.. image:: https://api.travis-ci.org/PyCQA/pep8.png?branch=master
   :target: https://travis-ci.org/PyCQA/pep8
   :alt: Build status

.. image:: https://pypip.in/wheel/pep8/badge.png?branch=master
   :target: https://pypi.python.org/pypi/pep8
   :alt: Wheel Status

* `Read the documentation <http://pep8.readthedocs.org/>`

* `Fork me on GitHub <http://github.com/PyCQA/pep8>`

Changelog
=========

1.7.0 (2016-01-12)

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

Announcements:

* Repository moved to PyCQA Organization on GitHub:
  https://github.com/pycqa/pep8
Changes:

* Reverted the fix in #368, "options passed on command line are only ones accepted" feature. This has many unintended consequences in pep8 and flake8 and needs to be reworked when I have more time.
* Added support for Python 3.5. (Issue #420 & #459)
* Added support for multi-line config_file option parsing. (Issue #429)
* Improved parameter parsing. (Issues #420 & #456)

Bugs:

* Fixed BytesWarning on Python 3. (Issue #459)

1.6.2 (2015-02-15)
---------------

Changes:

* Added check for breaking around a binary operator. (Issue #197, Pull #305)

Bugs:

* Restored config_file parameter in process_options(). (Issue #380)

1.6.1 (2015-02-08)
---------------

Changes:

* Assign variables before referenced. (Issue #287)

Bugs:

* Exception thrown due to unassigned `local_dir` variable. (Issue #377)

1.6.0 (2015-02-06)
---------------

News:

* Ian Lee <ianlee1521@gmail.com> joined the project as a maintainer.

Changes:

* Report E731 for lambda assignment. (Issue #277)
* Report E704 for one-liner def instead of E701. Do not report this error in the default configuration. (Issue #277)

* Replace codes E111, E112 and E113 with codes E114, E115 and E116 for bad indentation of comments. (Issue #274)

* Report E266 instead of E265 when the block comment starts with multiple `#`. (Issue #270)

* Report E402 for import statements not at the top of the file. (Issue #264)

* Do not enforce whitespaces around ``**`` operator. (Issue #292)

* Strip whitespace from around paths during normalization. (Issue #339 / #343)

* Update `--format` documentation. (Issue #198 / Pull Request #310)

* Add `.tox/` to default excludes. (Issue #335)

* Do not report E121 or E126 in the default configuration. (Issues #256 / #316)

* Allow spaces around the equals sign in an annotated function. (Issue #357)

* Allow trailing backslash if in an inline comment. (Issue #374)

* If `--config` is used, only that configuration is processed. Otherwise, merge the user and local configurations are merged. (Issue #368 / #369)

Bug fixes:

* Don't crash if Checker.build_tokens_line() returns None. (Issue #306)

* Don't crash if os.path.expanduser() throws an ImportError. (Issue #297)

* Missing space around keyword parameter equal not always reported, E251. (Issue #323)

* Fix false positive E711/E712/E713. (Issues #330 and #336)

* Do not skip physical checks if the newline is escaped. (Issue #319)

* Flush sys.stdout to avoid race conditions with printing. See flake8 bug: https://gitlab.com/pycqa/flake8/issues/17 for more details. (Issue #363)

1.5.7 (2014-05-29)

--------------
Bug fixes:

* Skip the traceback on "Broken pipe" signal. (Issue #275)

* Do not exit when an option in `setup.cfg` or `tox.ini` is not recognized.

* Check the last line even if it does not end with a newline. (Issue #286)

* Always open files in universal newlines mode in Python 2. (Issue #288)

1.5.6 (2014-04-14)
------------------

Bug fixes:

* Check the last line even if it has no end-of-line. (Issue #273)

1.5.5 (2014-04-10)
------------------

Bug fixes:

* Fix regression with E22 checks and inline comments. (Issue #271)

1.5.4 (2014-04-07)
------------------

Bug fixes:

* Fix negative offset with E303 before a multi-line docstring. (Issue #269)

1.5.3 (2014-04-04)
------------------

Bug fixes:

* Fix wrong offset computation when error is on the last char of a physical line. (Issue #268)

1.5.2 (2014-04-04)
Changes:

* Distribute a universal wheel file.

Bug fixes:

* Report correct line number for E303 with comments. (Issue #60)
* Do not allow newline after parameter equal. (Issue #252)
* Fix line number reported for multi-line strings. (Issue #220)
* Fix false positive E121/E126 with multi-line strings. (Issue #265)
* Fix E501 not detected in comments with Python 2.5.
* Fix caret position with `--show-source` when line contains tabs.

1.5.1 (2014-03-27)

Bug fixes:

* Fix a crash with E125 on multi-line strings. (Issue #263)

1.5 (2014-03-26)

Changes:

* Report E129 instead of E125 for visually indented line with same indent as next logical line. (Issue #126)
* Report E265 for space before block comment. (Issue #190)
* Report E713 and E714 when operators `not in` and `is not` are recommended. (Issue #236)
* Allow long lines in multiline strings and comments if they cannot be wrapped. (Issue #224).
* Optionally disable physical line checks inside multiline strings, using `# noqa`. (Issue #242)
* Change text for E121 to report "continuation line under-indented for hanging indent" instead of indentation not being a multiple of 4.

* Report E131 instead of E121 / E126 if the hanging indent is not consistent within the same continuation block. It helps when error E121 or E126 is in the "ignore" list.

* Report E126 instead of E121 when the continuation line is hanging with extra indentation, even if indentation is not a multiple of 4.

Bug fixes:

* Allow the checkers to report errors on empty files. (Issue #240)

* Fix ignoring too many checks when ``--select`` is used with codes declared in a flake8 extension. (Issue #216)

* Fix regression with multiple brackets. (Issue #214)

* Fix `StyleGuide` to parse the local configuration if the keyword argument `paths` is specified. (Issue #246)

* Fix a false positive E124 for hanging indent. (Issue #254)

* Fix a false positive E126 with embedded colon. (Issue #144)

* Fix a false positive E126 when indenting with tabs. (Issue #204)

* Fix behaviour when ``exclude`` is in the configuration file and the current directory is not the project directory. (Issue #247)

* The logical checks can return `None` instead of an empty iterator. (Issue #250)

* Do not report multiple E101 if only the first indentation starts with a tab. (Issue #237)

* Fix a rare false positive W602. (Issue #34)

1.4.6 (2013-07-02)

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

Changes:

* Honor `# noqa` for errors E711 and E712. (Issue #180)
* When both a ``tox.ini`` and a ``setup.cfg`` are present in the project directory, merge their contents. The ``tox.ini`` file takes precedence (same as before). (Issue #182)

* Give priority to ``--select`` over ``--ignore``. (Issue #188)

* Compare full path when excluding a file. (Issue #186)

* New option ``--hang-closing`` to switch to the alternative style of closing bracket indentation for hanging indent. Add error E133 for closing bracket which is missing indentation. (Issue #103)

* Accept both styles of closing bracket indentation for hanging indent. Do not report error E123 in the default configuration. (Issue #103)

Bug fixes:

* Do not crash when running AST checks and the document contains null bytes. (Issue #184)

* Correctly report other E12 errors when E123 is ignored. (Issue #103)

* Fix false positive E261/E262 when the file contains a BOM. (Issue #193)

* Fix E701, E702 and E703 not detected sometimes. (Issue #196)

* Fix E122 not detected in some cases. (Issue #201 and #208)

* Fix false positive E121 with multiple brackets. (Issue #203)

1.4.5 (2013-03-06)
------------------

* When no path is specified, do not try to read from stdin. The feature was added in 1.4.3, but it is not supported on Windows. Use ``-`` filename argument to read from stdin. This usage is supported since 1.3.4. (Issue #170)

* Do not require ``setuptools`` in setup.py. It works around an issue with ``pip`` and Python 3. (Issue #172)

* Add ``__pycache__`` to the ignore list.

* Change misleading message for E251. (Issue #171)

* Do not report false E302 when the source file has a coding cookie or a comment on the first line. (Issue #174)
* Reorganize the tests and add tests for the API and for the command line usage and options. (Issues #161 and #162)

* Ignore all checks which are not explicitly selected when `select` is passed to the `StyleGuide` constructor.

1.4.4 (2013-02-24)
------------------

* Report E227 or E228 instead of E225 for whitespace around bitwise, shift or modulo operators. (Issue #166)

* Change the message for E226 to make clear that it is about arithmetic operators.

* Fix a false positive E128 for continuation line indentation with tabs.

* Fix regression with the `--diff` option. (Issue #169)

* Fix the `TestReport` class to print the unexpected warnings and errors.

1.4.3 (2013-02-22)
------------------

* Hide the `--doctest` and `--testsuite` options when installed.

* Fix crash with AST checkers when the syntax is invalid. (Issue #160)

* Read from standard input if no path is specified.

* Initiate a graceful shutdown on `Control+C`.

* Allow to change the `checker_class` for the `StyleGuide`.

1.4.2 (2013-02-10)
------------------

* Support AST checkers provided by third-party applications.

* Register new checkers with `register_check(funct_or_cls, codes)`.

* Allow to construct a `StyleGuide` with a custom parser.
* Accept visual indentation without parenthesis after the ``if`` statement. (Issue #151)

* Fix UnboundLocalError when using ``# noqa`` with continued lines. (Issue #158)

* Re-order the lines for the ``StandardReport``.

* Expand tabs when checking E12 continuation lines. (Issue #155)

* Refactor the testing class ``TestReport`` and the specific test functions into a separate test module.

1.4.1 (2013-01-18)
------------------

* Allow sphinx.ext.autodoc syntax for comments. (Issue #110)

* Report E703 instead of E702 for the trailing semicolon. (Issue #117)

* Honor ``# noqa`` in addition to ``# nopep8``. (Issue #149)

* Expose the ``OptionParser`` factory for better extensibility.

1.4 (2012-12-22)
---------------

* Report E226 instead of E225 for optional whitespace around common operators (``*``, ``**``, ``/``, ``+`` and ``-``). This new error code is ignored in the default configuration because PEP 8 recommends to "use your own judgement". (Issue #96)

* Lines with a ``# nopep8`` at the end will not issue errors on line length E501 or continuation line indentation E12. (Issue #27)

* Fix AssertionError when the source file contains an invalid line ending ``\r\n``. (Issue #119)

* Read the ``[pep8]`` section of ``tox.ini`` or ``setup.cfg`` if present. (Issue #93 and #141)

* Add the Sphinx-based documentation, and publish it on http://pep8.readthedocs.org/. (Issue #105)

1.3.4 (2012-12-18)
* Fix false positive E124 and E128 with comments. (Issue #100)
* Fix error on stdin when running with bpython. (Issue #101)
* Fix false positive E401. (Issue #104)
* Report E231 for nested dictionary in list. (Issue #142)
* Catch E271 at the beginning of the line. (Issue #133)
* Fix false positive E126 for multi-line comments. (Issue #138)
* Fix false positive E221 when operator is preceded by a comma. (Issue #135)
* Fix `--diff` failing on one-line hunk. (Issue #137)
* Fix the `--exclude` switch for directory paths. (Issue #111)
* Use ``-`` filename to read from standard input. (Issue #128)

1.3.3 (2012-06-27)
------------------
* Fix regression with continuation line checker. (Issue #98)

1.3.2 (2012-06-26)
------------------
* Revert to the previous behaviour for `--show-pep8`: do not imply `--first`. (Issue #89)
* Add E902 for IO errors. (Issue #87)
* Fix false positive for E121, and missed E124. (Issue #92)
* Set a sensible default path for config file on Windows. (Issue #95)
* Allow `verbose` in the configuration file. (Issue #91)
* Show the enforced `max-line-length` in the error message. (Issue #86)

1.3.1 (2012-06-18)
------------------
* Explain which configuration options are expected. Accept and recommend the options names with hyphen instead of underscore. (Issue #82)

* Do not read the user configuration when used as a module (except if ``config_file=True`` is passed to the ``StyleGuide`` constructor).

* Fix wrong or missing cases for the E12 series.

* Fix cases where E122 was missed. (Issue #81)

1.3 (2012-06-15)
----------------

.. warning::

    The internal API is backwards incompatible.

* Remove global configuration and refactor the library around a ``StyleGuide`` class; add the ability to configure various reporters. (Issue #35 and #66)

* Read user configuration from ``~/.config/pep8`` and local configuration from ``./.pep8``. (Issue #22)

* Fix E502 for backslash embedded in multi-line string. (Issue #68)

* Fix E225 for Python 3 iterable unpacking (PEP 3132). (Issue #72)

* Enable the new checkers from the E12 series in the default configuration.

* Suggest less error-prone alternatives for E712 errors.

* Rewrite checkers to run faster (E22, E251, E27).

* Fixed a crash when parsed code is invalid (too many closing brackets).

* Fix E127 and E128 for continuation line indentation. (Issue #74)

* New option ``--format`` to customize the error format. (Issue #23)

* New option ``--diff`` to check only modified code. The unified diff is read from STDIN. Example: ``hg diff | pep8 --diff`` (Issue #39)

* Correctly report the count of failures and set the exit code to 1
* Correctly detect the encoding in Python 3. (Issue #69)

* Drop support for Python 2.3, 2.4 and 3.0. (Issue #78)

1.2 (2012-06-01)

* Add E121 through E128 for continuation line indentation. These checks are disabled by default. If you want to force all checks, use switch `--select=E,W`. Patch by Sam Vilain. (Issue #64)

* Add E721 for direct type comparisons. (Issue #47)

* Add E711 and E712 for comparisons to singletons. (Issue #46)

* Fix spurious E225 and E701 for function annotations. (Issue #29)

* Add E502 for explicit line join between brackets.

* Fix E901 when printing source with `--show-source`.

* Report all errors for each checker, instead of reporting only the first occurrence for each line.

* Option `--show-pep8` implies `--first`.

1.1 (2012-05-24)

* Add E901 for syntax errors. (Issues #63 and #30)

* Add E271, E272, E273 and E274 for extraneous whitespace around keywords. (Issue #57)

* Add `tox.ini` configuration file for tests. (Issue #61)

* Add `travis.yml` configuration file for continuous integration. (Issue #62)

1.0.1 (2012-04-06)

* Fix inconsistent version numbers.
1.0 (2012-04-04)
-----------------

* Fix W602 `raise` to handle multi-char names. (Issue #53)

0.7.0 (2012-03-26)
-------------------

* Now `--first` prints only the first occurrence of each error. The `--repeat` flag becomes obsolete because it is the default behaviour. (Issue #6)

* Allow to specify `--max-line-length`. (Issue #36)

* Make the shebang more flexible. (Issue #26)

* Add testsuite to the bundle. (Issue #25)

* Fixes for Jython. (Issue #49)

* Add PyPI classifiers. (Issue #43)

* Fix the `--exclude` option. (Issue #48)

* Fix W602, accept `raise` with 3 arguments. (Issue #34)

* Correctly select all tests if `DEFAULT_IGNORE == ""`.  

0.6.1 (2010-10-03)
------------------

* Fix inconsistent version numbers. (Issue #21)

0.6.0 (2010-09-19)
-------------------

* Test suite reorganized and enhanced in order to check more failures with fewer test files. Read the `run_tests` docstring for details about the syntax.

* Fix E225: accept `print >>sys.stderr, "..."` syntax.

* Fix E501 for lines containing multibyte encoded characters. (Issue #7)
* Fix E221, E222, E223, E224 not detected in some cases. (Issue #16)

* Fix E211 to reject `v = dic['a'] ['b']`. (Issue #17)

* Exit code is always 1 if any error or warning is found. (Issue #10)

* `--ignore` checks are now really ignored, especially in conjunction with `--count`. (Issue #8)

* Blank lines with spaces yield W293 instead of W291: some developers want to ignore this warning and indent the blank lines to paste their code easily in the Python interpreter.

* Fix E301: do not require a blank line before an indented block. (Issue #14)

* Fix E203 to accept NumPy slice notation `a[0, :]`. (Issue #13)

* Performance improvements.

* Fix decoding and checking non-UTF8 files in Python 3.

* Fix E225: reject `True+False` when running on Python 3.

* Fix an exception when the line starts with an operator.

* Allow a new line before closing `)``, `}` or `]`. (Issue #5)

0.5.0 (2010-02-17)
------------------

* Changed the `--count` switch to print to sys.stderr and set exit code to 1 if any error or warning is found.

* E241 and E242 are removed from the standard checks. If you want to include these checks, use switch `--select=E,W`. (Issue #4)

* Blank line is not mandatory before the first class method or nested function definition, even if there's a docstring. (Issue #1)

* Add the switch `--version`.

* Fix decoding errors with Python 3. (Issue #13 [1]_)

* Add `--select` option which is mirror of `--ignore`.

* Add checks E261 and E262 for spaces before inline comments.
* New check W604 warns about deprecated usage of backticks.

* New check W603 warns about the deprecated operator `<>`.

* Performance improvement, due to rewriting of E225.

* E225 now accepts:
  
  - no whitespace after unary operator or similar. (Issue #9 [1]_)
  - lambda function with argument unpacking or keyword defaults.

* Reserve "2 blank lines" for module-level logical blocks. (E303)

* Allow multi-line comments. (E302, issue #10 [1]_)

0.4.2 (2009-10-22)
------------------

* Decorators on classes and class methods are OK now.

0.4 (2009-10-20)
----------------

* Support for all versions of Python from 2.3 to 3.1.

* New and greatly expanded self tests.

* Added `--count` option to print the total number of errors and warnings.

* Further improvements to the handling of comments and blank lines.
  (Issue #1 [1]_ and others changes.)

* Check all py files in directory when passed a directory (Issue #2 [1]_). This also prevents an exception when traversing directories with non `*.py` files.

* E231 should allow commas to be followed by `)` `. (Issue #3 [1]_)

* Spaces are no longer required around the equals sign for keyword arguments or default parameter values.

.. [1] These issues refer to the `previous issue tracker`__.

.. __: http://github.com/cburroughs/pep8.py/issues
0.3.1 (2009-09-14)
--------------
* Fixes for comments: do not count them when checking for blank lines between items.
* Added setup.py for pypi upload and easy_installability.

0.2 (2007-10-16)
--------------
* Loads of fixes and improvements.

0.1 (2006-10-01)
--------------
* First release.

Keywords: pep8
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1177346040_1625136106.91/0/pep8-1-7-0-1-tar-gz/pep8-1.7.0/pep8.egg-info/PKG-INFO
* /opt/cola/permits/1177346040_1625136106.91/0/pep8-1-7-0-1-tar-gz/pep8-1.7.0/setup.py
No license file was found, but licenses were detected in source scan.

'License :: OSI Approved :: MIT License',

Found in path(s):
* /opt/cola/permits/1177346040_1625136106.91/0/pep8-1-7-0-1-tar-gz/pep8-1.7.0/setup.py

1.136 tcp-dump 4.7.4
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1.140 lua 5.1

1.141 e2fsprogs 1.43
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Index: tdbsa/tdb.c

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

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

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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

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

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

image::$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

This is the Debian GNU/Linux prepackaged version of the 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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Gadi Oxman, August 1995
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1.142 zlib 1.2.11

1.142.1 Available under license:

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1.143 jsch 0.1.55

1.144 rpcbind 0.2.3-r0.25

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1.146 commons-codec 1.14

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@enumerate a
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@end enumerate

@end iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@end info
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and
you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.
Of course, the commands you use may be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

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:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at
compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program
is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If
this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special
exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the
words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that
accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library.
Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent
modules to produce an executable, regardless of the license terms of these independent modules, and to copy and
distribute the resulting executable under terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that module.? An independent module is a module
which is not derived from or based on this library.? If you modify this library, you may extend this exception to your
version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception
statement from your version.

**1.165 object-model 1.0.18**

**1.165.1 Available under license:**

This License Support and Services Agreement, including any and all Order Forms and SOWs (as defined below) (collectively, this Agreement), defines and governs the products(s), documentation and services provided by Axway UK Limited, a company registered in England and Wales (registered number 2758712) whose registered office is at Tower Bridge House, St Katharine’s Way, London E1W 1DD (Axway) provides to your company (Customer).

**ARTICLE 1 DEFINITIONS AND INTERPRETATION**

1.1. In this Agreement and any Schedules, Order Forms or Statements of Work (SOWs), the following terms are defined as follows, and additional definitions applicable to the Order Forms are included in Attachment A: Additional Services means the Services described in Article 7 as contained in any Order Forms or SOWs; Agreement means these General Conditions and the Software/Services Order Form (or Specific Conditions) and Schedules (together, the Order Form); Business Partner or Trading Partner means any external computer interoperating with a Licensed Component through one or more protocols, one or more networks, or one or more adapters; Defect means a reproducible error or defect in the Product that prevents it from operating materially in accordance with its Documentation; Delivery means delivery of license keys which unlock the Licensed Component (including the Support Access Code number), enabling electronic delivery of the Licensed Component for download, or shipment of a CD ROM which contains the Licensed Component, or shipment of the Hardware Product; Documentation means the documents delivered with the Product which contains Axways published specifications and user guide of the Product; Effective Date for an Order Form means the date when Customer executes an Order Form unless specified otherwise in an Order Form; Hardware Product means any hardware appliance or other item of equipment that is delivered to Customer; Licensed Component means the computer program described in the Order Form, as well as: (i) the Documentation, in either machine-readable or printed form; and (ii) all entire or partial authorized copies of such items made by Customer; and (iii) any software release provided by Axway to Customer (provided that Customer is still a subscriber to Support Services); Operating Environment means any operating system based environment hosting the running of a Licensed Component, defined by its resources: Computer, its number of CPUs, its number of Cores per CPUs, its number of Instances, its number of Partitions, the type of its Partitions and the number of CPUs per Partitions; Parties means Axway and the party identified as Customer in the Order Form; Product means Hardware Product(s) and Licensed Component(s); Site means the physical location of the Operating Environment, such address as it is provided in the Order Form; Support Services means annual Product support provided under Axways policies available at http://support.axway.com/ for the level of Support Services ordered in the Order Form; Third Party Software means any third party program or software included as an integral part of the Product and delivered with the Product; such program or software is solely for use as embedded with the Product; Use means the installation, loading, utilization, storage or display of the Product by Customer within the constraints in the Order Form; 1.2. Headings are used in this Agreement for ease of reference only and shall not affect interpretation. References in this Agreement to Articles are references to the Articles of the General Conditions unless inconsistent with the context. 1.3. The words "include", "includes", "including" and "included" will be construed without limitation unless inconsistent with the context.

**ARTICLE 2 CONTRACT DOCUMENTS**

2.1. This Agreement consists of these General Conditions, and any Order Form(s) or Specific Conditions, which prevail over these General Conditions to the extent of any conflict. 2.2. This Agreement forms the entire agreement between the Parties relating to this subject matter, replaces and supersedes any previous proposals, correspondence and understandings, whether written or oral; including any Customer terms and conditions, which shall not apply.
2.3. This Agreement may not be altered, modified, amended, changed, rescinded or discharged in whole or in part, except by written agreement signed by both Customer and Axway. 2.4. Nothing contained in any document or purchase order submitted by Customer shall in any way modify or add to the terms of this Agreement.

ARTICLE 3 TERM
3.1. This Agreement shall remain in effect unless terminated in accordance with Article 17. The right of Use is granted from the Effective Date, or if none stated, upon Delivery by Axway. 3.2. If purchased by Customer, Support Services shall commence on the Effective Date and shall continue for an initial period of one (1) year (Initial Support Term) except as otherwise set forth in the Order Form. Upon expiration of the Initial Support Term, the Support Services shall be automatically renewed for one (1) year periods, with payments required prior to the start of the new support term, unless and until terminated in accordance with Article 17. 3.3 The terms of this Article 3.3 apply if Customer is obtaining an evaluation license. Subject to the terms of this Agreement, Axway grants to Customer (i) a non-exclusive, nontransferable license, without right of sublicense, to install and Use the evaluation version of the Licensed Component, in object code form and/or (ii) the right to Use the Hardware Product for evaluation and trial purposes only. The term of this license begins upon delivery or download and ends thirty (30) days thereafter, or extends for such longer period as Axway shall have agreed to in writing (the "Evaluation Period"). When the Evaluation Period expires Customer must stop Using the Licensed Component, and return any Product to Axway. Axway disclaims all warranties during this Evaluation Period and Customer waives all claims against Axway related to this Evaluation Period.

ARTICLE 4 USE OF THE LICENSED COMPONENT
4.1. As of the Effective Date of this Agreement, Axway grants to Customer, subject to the terms and conditions of this Agreement, a perpetual, non-exclusive, non-assignable and non-transferable right to Use the Licensed Component for Customers own internal business purposes only. Any delay in any payment of the fees related to this Agreement as set forth in Article 8 thirty (30) days beyond the payment date will automatically suspend the right to Use the Licensed Component for Customer, upon written notice by Axway. The Product, including portions and information or materials thereof, may not be used for any purpose that would be a violation of this Agreement. All rights not addressed herein are specifically reserved by Axway. Customer shall not Use the Product to provide services to third parties, including ASP, facilities management, outsourcing, unless expressly provided for in an Order Form. 4.2. If Customer has purchased a license for Products which are used by Customer to distribute to any third party Trading Partner that has a business need to securely transfer files to or from Customer, then the sublicense such Trading Partner has conveys the right to Use the Product for the purpose of transferring files to and from Customer in the furtherance of Customers internal business purposes only. 4.3. If Customer wishes to permanently transfer the Licensed Component to a new Operating Environment, the Order Form associated with this Agreement will have to be updated accordingly. Once the transfer has been made to the new authorized Operating Environment, Customer shall erase the Licensed Component from the former Operating Environment, within the time frame allowed in the Order Form. 4.4. Customer has the right to make one back-up copy of the Licensed Component for archival purpose only. Any other copies, reproductions and summaries of the Licensed Component or Documentation are prohibited.

ARTICLE 5 DELIVERY AND WARRANTY
5.1. Axway shall provide Customer with the Licensed Component in object code form and with the Documentation. Full title to the Hardware Product passes to Customer upon Delivery. Products are delivered Free On Board (FOB) shipping point with freight and insurance prepaid. 5.2. The Use of certain Licensed Components will require a key. The key will be generated by Axway based on computerdependent Customer information. Customer agrees to provide the necessary information as required to generate and activate the key. 5.3. THE TERMS OF THIS AGREEMENT ARE INSTEAD OF ALL WARRANTIES, CONDITIONS, TERMS, UNDERTAKINGS AND OBLIGATIONS IMPLIED BY STATUTE, COMMON LAW, CUSTOM, TRADE USAGE, COURSE OF
ARTICLE 6 SUPPORT SERVICES
6.1. Upon payment of the applicable fees, Axway will provide technical Support Services, at the level specified on the Order Form. 6.2. Axway is under no obligation to provide Support Services (i) if there has been a modification or attempted modification of the Product (other than modifications made by Axway and delivered as part of the Product) or the Product has been improperly installed by Customer or operated or used other than in accordance with this Agreement and the Documentation; or (ii) if Customer has refused, delayed or otherwise failed to implement a release or other modification that Axway has provided or recommended.

ARTICLE 7 ADDITIONAL SERVICES
7.1. In accordance with its expertise and availability, Axway will, if ordered by Customer, provide services that may include installation, implementation, technical and training assistance services for the Product, or subscription-based services ("Additional Services") to Customer at the rates set forth in the Order Form or, if no rates are set forth, the rates in effect at the time that such Services are provided. 7.2. Except for Retained Works (defined below), all right and title to professional services deliverables shall belong to Customer. Axway will be the owner of any Retained Works, which are defined to include: (i) any pre-existing materials, including any of Axway’s preexisting software code, proprietary software tools, or training materials incorporated into the deliverables; (ii) any customized modifications to the Licensed Component unless an applicable work order, SOW or other such similar document expressly provides that such modifications are assigned to Customer; and (iii) any third party programs which are integrated with or incorporated into the deliverables. For any Retained Works incorporated into a deliverable, Axway grants Customer a non-exclusive, worldwide, royalty-free license to use such Retained Works to the same extent that Customer is licensed to use any related Licensed Component.

ARTICLE 8 PAYMENT TERMS AND CONDITIONS
8.1. The fees for the Products and Support Services are listed in the Order Form. In addition to the fees listed in the Order Form, Customer shall be responsible for all personal property, sales, use, value-added, withholding and similar taxes (other than taxes on Axway’s net income) arising from the transactions described in this Agreement. Where Customer’s Use of the Software or receipt of Services is exempt from sales or other taxes, Customer shall provide Axway with the appropriate exemption certificate. All amounts payable under this Agreement shall be paid net thirty (30) days from the invoice date, unless stated otherwise in an Order Form. 8.2. The license fee is fixed and not subject to revision. It shall be invoiced in full on the Effective Date, unless stated otherwise in an Order Form. 8.3. Support Services fees shall be invoiced on the Effective Date and are due net thirty (30) days from the invoice date unless otherwise stated in an Order Form. Support Services fees are subject to annual revision as stated in the relevant Specific Conditions. 8.4. Fees for professional services shall be invoiced at the end of the month in which they are provided. Travel and accommodation expenses incurred to provide training, technical assistance, support and installation services shall be invoiced to Customer based on the actual and reasonable costs incurred by Axway. Supporting documents will be provided upon reasonable request. Fees for professional services are subject to annual revision as stated in the relevant Specific Conditions. 8.5. Fees or other amounts remaining unpaid for thirty (30) days following the date of invoice shall be considered overdue and shall remain payable by Customer together with interest for late payment from the date payable at the rate of 4% per annum above the base rate for the time being of Lloyds TSB Bank plc. In addition to the above provision for late payment, Axway reserves the right to suspend performance of any Additional Services (which includes hosting services, as applicable).

ARTICLE 9 CUSTOMER RESPONSIBILITIES
9.1. Unless the hosted option is selected, Customer shall be responsible for operating the Product and shall: ensure that the hardware, base program, network and operating system configuration are suitable, develop the operating
measures, control procedures and security measures required for data backup and replacement in the event of interruption in Product operation. 9.2. Customer is also responsible for: protecting its own recorded data, and the results obtained and any direct or indirect consequences thereof, making qualified personnel available to resolve any problems, and appointing one of its employees to serve as the primary point of contact with Axway for any technical issues

ARTICLE 10 INTELLECTUAL PROPERTY
10.1. Only a right to Use the Licensed Component is granted to Customer; any extension of the right granted shall be subject to Axway's prior written consent. The Parties acknowledge and agree that Customer has only Use rights with respect to the Licensed Component, but Customer owns the Hardware Product. Axway retains title in and to the Licensed Component, including any portion thereof and information, materials or copy made from it or any part of it and copyright in the Licensed Component. 10.2. If Customer wishes to make the Product interoperable with other programs, other than as envisaged in the Documentation, Axway may make the necessary information available to Customer upon receipt of a written request. 10.3. Except as otherwise provided for in this Agreement or permitted under applicable law, Customer will not, directly or through any person or entity, in any form or manner (i) copy, sublicense, lease, assign, distribute, reproduce, incorporate, use or allow access to the Product or modify, prepare derivative works from the Licensed Component except as explicitly permitted under this Agreement or (ii) decrypt, extract, decompile or otherwise reverse engineer the Licensed Component, or otherwise disassemble, derive or attempt to derive the source code of, or any processes, methods, specifications, protocols, algorithms, interfaces, data structures, or other information embodied or used in, the Product. The restrictions of this Article 10 shall survive the termination of the Agreement. If Customer has purchased licenses for a Trading Partner, Customer shall ensure each Trading Partner is bound to provisions at least as protective of Axway as Articles 4, 10, 12, 14 and 15. Customer shall promptly notify Axway of any unauthorized use, disclosure, reproduction, or distribution of any Product, which comes to Customers attention, or which Customer reasonably suspects. Customer may Use any Third Party Software products or modules supplied by Axway solely with the Licensed Component. 10.4. If, in the performance of any Additional Services hereunder, Axway is required to use any Customer supplied programs, Customer hereby warrants that it has obtained any necessary authorizations and licenses required to allow Axway to access and use such program as necessary for performance of the Services. Customer shall provide any associated supporting documentation to Axway promptly upon request.

ARTICLE 11 INDEMNIFICATION 11.1. Axway agrees to defend, settle and indemnify Customer from and against any amounts payable under judgment, court order or settlement brought by any unaffiliated third party against Customer to the extent that such action results from actual or alleged infringement by any Product of any third party copyright, trade secret or patent existing or issued as of the date that Axway initially Delivered the applicable version of such Product to Customer. In connection with any allegation of infringement of any third party rights, Customer shall (and it shall be a condition of reliance upon the indemnity for Customer to): immediately notify Axway in writing of the allegation; and allow Axway sole control of the defense and any related settlement negotiations; and cooperate in good faith in the said defense and comply with all of Axways reasonable requests (at Axways expense) in defending or settling the claim. 11.2. Should Customers use of the Product be determined to have infringed any third party rights, or if in Axways judgment, such use is likely to be infringing, Axway shall endeavor at its option do one of the following, at its own expense: - procure for Customer the right to continue owning and/or using the Product, as applicable, - replace or modify the Product to make its Use non-infringing while yielding substantially equivalent functionality. If and only if the previous options are not, in Axways reasonable judgment, commercially reasonable, then Axway may terminate this Agreement as it applies to the specific Product and the corresponding rights of Use. Customer agrees to destroy or return the affected Product to Axway on its written request and Axway will then return the Product license fees to Customer as prorated over a five (5) year term commencing on the date of Delivery of the applicable Product by Axway. The obligations of Axway in this Article 11 will not apply to the extent that the
infringement or claim thereof is based on (i) Use of the Product other than in accordance with this Agreement, or (ii) modifications or additions to the Product by Customer personnel (other than modifications at Axway’s direction) or (iii) use of other than the most recent version of any Product if and from the time Axway informs Customer in writing that infringement or misappropriation may be avoided by use of the most recent version of such Product. THIS ARTICLE 11 SETS FORTH THE FULL SCOPE OF AXWAYS LIABILITY AND CUSTOMERS EXCLUSIVE REMEDY, TO THE EXTENT PERMITTED BY LAW, FOR ANY ACTUAL OR ALLEGED INFRINGEMENT OF THIRD PARTY RIGHTS IN CONNECTION WITH THE PRODUCT.

ARTICLE 12 LIABILITY
12.1. Axway does not warrant that the Product will operate in combination with other software selected by Customer, or that the Product will operate uninterrupted or free of non-material Defects. The Customer shall promptly inform Axway of any Defect and afford Axway reasonable opportunity to correct the Defect including, without limitation, the option to provide replacement Product, or correct any deficiency in Support Services. 12.2. Except for Axway’s obligations with respect to indemnification or confidentiality, Axway is not liable for any special, indirect, exemplary, incidental, punitive or consequential damages of any kind, including, without limitation, damages for loss of goodwill, work stoppage, lost profits, lost data or computer hardware or software damage, failure or malfunction, whether or not Axway has been advised of the possibility of such damages; except for Axway’s obligations with respect to indemnification or confidentiality, Axway’s liability hereunder shall not exceed the total amount of license and services fees invoiced under this agreement for the software giving rise to such liability during the calendar year in which the claim arose. the foregoing limitations of liability and disclaimers of damages apply regardless of the form in which an action (legal, equitable or otherwise) may be brought, whether in contract, tort, or otherwise. The limitations of liabilities, disclaimers of warranties, exclusivity of remedies and other limitations set forth herein are an essential element of the bargain between the parties (without which the transactions contemplated by this agreement would not occur) and will apply even if a remedy fails in its essential purpose. Axway’s liability for death and personal injury caused by its negligence and any breach of its obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982 will be unlimited 12.3. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right to enforce or rely on any of the terms of this Agreement. The terms of this Article 12 shall survive termination of this Agreement.

ARTICLE 13 ADVERTISING
The Customer must include Axway’s name any time it refers to the Product. The Customer hereby authorizes Axway to include its name in a customer list.

ARTICLE 14 ADMINISTRATIVE REQUIREMENTS
The Customer is responsible for obtaining any required legal authorizations arising out of Customers particular use of the Products and is responsible for its compliance with applicable data protection legislation.

ARTICLE 15 CONFIDENTIALITY
15.1. Each Party recognizes that under this Agreement either Party may have access to or otherwise receive trade secrets and confidential or proprietary information of the other, including information concerning products, including but not limited to the names of Customers clients, financial or contractual arrangements. All such information shall constitute “Confidential Information”. The Products, including any Documentations or portions thereof and information, material or copy derived there from, is proprietary and confidential to Axway. Each Party agrees not to use, other than for the purposes for which it was disclosed or divulged the other party’s Confidential Information and to limit disclosure of same to those of its employees and independent contractors who have a need to know the same and to use all reasonable endeavors to prevent its disclosure to or access by any third party without the prior written consent of the disclosing party. 15.2. Confidential Information does not include information that: (i)
is or becomes a part of the public domain through no act or omission of the receiving Party; (ii) was in the receiving Party's lawful possession prior to the disclosure and had not been obtained by the receiving Party either directly or indirectly from the disclosing Party; (iii) is lawfully disclosed to the receiving Party by a third party without restriction on disclosure; (iv) is independently developed by the receiving Party without reference to the disclosing Party's Confidential Information; or (v) is required to be disclosed by any court of competent jurisdiction or by a governmental or regulatory authority or where there is a legal right, duty or requirement to disclose. In such event, the receiving Party will (and without breaching any legal or regulatory requirement) where reasonably practicable give the disclosing Party prompt notice in writing of the requirement to disclose. 15.3. The rights and obligations of the Parties under this Article 15 shall continue for three (3) years following expiration or termination of this Agreement.

ARTICLE 16 NON-SOLICITATION

16.1. For the duration of this Agreement and for the period of twelve (12) months following its termination or expiration, neither Party shall, without the prior written consent of the other Party, actively endeavor to solicit or entice away any person employed or engaged by the other Party in the performance or administration of this Agreement. 16.2. If a Party breaches the foregoing obligation, the breaching party shall pay to the other Party twelve times the prior monthly base salary of the relevant person, such sum being deemed by both Parties to be fair compensation for the loss suffered as a result of the breach. 16.3. The provisions of Article 16.2 shall not apply to any individual who can be proven to have responded to a bona fide published recruitment advertisement where the recruited person is not recruited to work for or with a party's personnel or department involved in this Agreement. Nothing in this Article 16 is intended to restrict the right of any individual to seek employment with whomsoever they wish, but is intended to provide for due compensation where such a situation occurs as a result of entering into this Agreement recognizing that loss of experienced personnel can have a serious effect upon any employer.

ARTICLE 17 TERMINATION

17.1. This Agreement may be terminated by either Party immediately upon written notice if the other Party is in material or continuing breach of any of its obligations under this Agreement and fails to remedy that breach (if capable of remedy) within thirty (30) days after receiving written notice of such breach. 17.2. Either Party may terminate this Agreement forthwith on giving written notice to the other Party if such Party has had a receiver or administrative receiver appointed over the whole or any part of its undertaking or assets or passes a resolution for winding up, or a court of competent jurisdiction makes an order to that effect or if the other Party enters into any voluntary arrangement with its creditors or becomes subject to a bankruptcy administration order or ceases to carry on business. 17.3. Upon termination of the Agreement Customer must, depending on the method of Product delivery, either: (i) return the Licensed Component and the Documentation to Axway and destroy or return any copies of the Licensed Component that it may have made within fifteen (15) days from the termination date or (ii) remove all copies of the Licensed Component and certify in writing that all copies have been removed and destroyed. 17.4. After the Initial Support Term or any of the annual renewal of Support Services terms, either Party may terminate the Support Services on six (6) months prior written notice.

ARTICLE 18 WAIVER

The fact that either Party fails to take action after a breach by the other Party of any of its obligations arising hereunder shall not be construed or operate as a waiver of the obligation in question or of any later breach.

ARTICLE 19 SEVERABILITY

If any of the provisions of this Agreement, or any part thereof, is judged to be illegal or unenforceable, the remaining provisions will continue in full force and effect for the remainder of this Agreement and shall not be prejudiced, unless the substantive purpose of this Agreement is thereby frustrated, in which case either Party may terminate this Agreement forthwith on written notice.
ARTICLE 20 ASSIGNMENT
This Agreement and the license granted hereunder may not be assigned or transferred in whole or in part by Customer without Axway’s prior written consent. Axway may assign and transfer its complete rights and obligations under this Agreement, without the consent of Customer, to any corporation that is a wholly owned subsidiary or parent or sister corporation of Axway. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right, including without limitation under the Contracts (Rights of Third Parties) Act 1999 to enforce or rely on any of the terms of this Agreement.

ARTICLE 21 AUDIT
Axway hereby reserves the right to conduct an on-site audit of Customer to verify compliance with the Licensed Component license granted herein by providing at least three (3) days prior written notice. Customer consents to audit compliance software being run on Customer systems. The Customer hereby agrees to cooperate with the audit in good faith, to grant Axway access to all relevant information and to provide copies of relevant information on request. In addition, Customer agrees, upon request by Axway from time to time, to provide Axway with a written report, certified by an officer, stating the physical Site(s) and computer systems with respect to which Customer is using the Licensed Component.

ARTICLE 22 EXPORT
Customer shall not export, ship, transmit or re-export the Products or Documentation in violation of any applicable law or regulation.

ARTICLE 23 THIRD PARTY SOFTWARE
Certain Third Party Software may be provided with the Licensed Component(s) that is subject to the accompanying license(s), if any, of its respective owner(s). To the extent portions of the Software are distributed under and subject to open source licenses obligating Axway to make the source code for such portions publicly available (such as the GNU General Public License (“GPL”) or the GNU Library General Public License (“LGPL”)), Axway will make such source code portions (including Axway modifications, as appropriate) available upon request for a period of up to three (3) years from the date of distribution. Such request can be made in writing to Axway Software - Tour W, 102 Terrasse Boieldieu, 92085 Paris La Dfense Cedex, France ATTN: Legal Department. Customer may obtain a copy of the GPL at http://www.gnu.org/licenses/gpl.html, and a copy of the LGPL at http://www.gnu.org/licenses/lgpl.html.

ARTICLE 24 - NOTICES
All notices, demands, consents, approvals and other communications shall be sufficient if in writing and sent by facsimile transmission (with a hard copy mailed on the same date) or registered or certified mail, return receipt requested, postage prepaid, or overnight courier service to the other party at its address set out in the Order Form or to such other superseding notice address that it has subsequently provided to other Party in writing. Each such notice shall be deemed to have been served: in the case of by hand and special delivery, when actually received; or if posted by recorded delivery shall be deemed to have been accepted on the expiry of forty eight (48) hours after posting and on proving posting it shall be sufficient to produce a copy of the notice properly addressed with the relevant post office receipt for its dispatch by recorded delivery.

ARTICLE 25 GOVERNING LAW and DISPUTES
25.1. This Agreement will be governed by and interpreted in accordance with the laws of England and Wales.
Should any dispute arise, the Parties will use all reasonable efforts to attempt to resolve the dispute in good faith by senior level negotiations. The dispute shall be referred by a written request to an officer of each Party who has authority to resolve the dispute and who is not directly involved with the subject matter of this Agreement who shall meet within fifteen (15) days from the dispatch of the written request in order to attempt to resolve the dispute. 25.2. If the dispute is not resolved through negotiation, both Parties agree that the Courts of England will have exclusive jurisdiction in connection with the resolution of the dispute. The United Nations Convention on the International Sale of Goods shall not apply to this Agreement.

ATTACHMENT A ADDITIONAL DEFINITIONS
To the extent used in the Order Forms pursuant to this Agreement, the following definitions have the following meanings: Active (Production) License means a license for Use of the Product in a production environment. An Active/Active configuration refers to a shared cluster configuration whereby applications and data are simultaneously available to all server Instances in the cluster. Consequently, Active/Active clusters support high availability; Computer means one or a group of physical hardware machines processing data and hosting the running of one or more operating systems as defined in the Order Form; Core means the main part of CPU that interprets the instructions and performs the binary calculations. Every CPU has at least one Core, but can be composed of several Cores. If the right of Use is based on Cores and if the Licensed Component is used on a single computer with multiple Cores, the Core license must correspond with the number of respective Cores contained within such Computer CPU (Central Processing Unit) means a functional unit in a computer that interprets and executes instructions. If the right of Use is based on CPUs and if the Licensed Component is used on a single computer with multiple CPUs, the CPU license must correspond with the number of respective CPUs contained within such Computer Instance means a single occurrence of a Licensed Component. For clarification, if Customer has purchased only one Active Production Instance, Customer may run a single occurrence of the Licensed Component in RAM (Random Access Memory); Named User means a physical person susceptible to establish a session with the Licensed Component; Node means a running instance of an Axway program, i.e. a JVM (Java Virtual Machine) running an Axway application; Partition means a reserved part of the resources of an Operating Environment that is set aside for a specific purpose; Such as: Capped-Partition means the Sub-Capacity Partition using a determined maximum subset of the resources of an Operating Environment. Floating Partition means the Sub-Capacity Partition using a dynamically allocated subset of the resources of an Operating Environment. The maximum potential of resources used by a Sub-Capacity Partition equals the overall resources of the Operating Environment; Full-Capacity Partition means a Partition using all the resources of an Operating Environment. There can only be one Full-Capacity Partition per Operating Environment. If there is another partition, then both Partitions are Sub-Capacity Partitions; Sub-Capacity Partition means a partition using a subset of the resources of an Operating Environment; Passive (Non-Production) License refers to a cluster fail over or disaster recovery software architecture. The passive software doesn't execute unless the licensed production copy of the Licensed Component fails. Where Customer is not able to use its licensed production copy of the Licensed Component in the event of fail over, the Passive license will start executing after a service interruption. A Passive License may also include those for test, development, archiving or quality control/quality assurance; User means, unless otherwise stated in the applicable Order: (a) with respect to all Products other than Products that are part of Axway’s Validation Authority or SecureTransport product suites, any person who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; (b) with respect to any Product included in Axway’s SecureTransport product suite, any person or system who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; and (c) with respect to any Product included in Axway’s Validation Authority product suite, any Validation Authority User. Validation Authority User means any Human User, Group User or Non-Human User. Human User means, with respect to the applicable Product included in Axway’s Validation Authority product line, any human who has one or more associated digital certificates associated with such human that: (i) uniquely identify such human; and (ii) are contained in a database or other repository that can be queried through Customers
implementation of such Product. Group User means, with respect to the applicable Product included in Axways Validation Authority product line, any group of humans that has one or more associated digital certificates that: (i) uniquely identify such group; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product. Non-Human User means, with respect to the applicable Product included in Axways Validation Authority product line, anything other than a Human User or Group User (such as a device) (Non-Human) that has one or more associated digital certificates that: (i) uniquely identify such Non-Human; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product.

1.166 libjpeg 1.2.90-8.el7

1.166.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdinput.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
; more details.

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxint.asm
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S

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/*
 * jdmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2012, D. R. Commander.
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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.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmarker.c

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S

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:
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.

This file was part of the Independent JPEG Group's software:
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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.

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.

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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.

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
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permanent JPEG objects only upon successful completion of an MCU.

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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.

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.

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This file contains a fast, not so accurate integer implementation of the inverse DCT (Discrete Cosine Transform). In the IJK 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.

The include file contains common declarations for the forward and inverse DCT modules. These declarations are private to the DCT managers (j dctmgr.c, jddctmgr.c) and the individual DCT algorithms. The individual DCT algorithms are kept in separate files to ease machine-dependent tuning (e.g., assembly coding).

*/

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

/*
* j dct.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, jddctmgr.c) and the individual DCT algorithms. The individual DCT algorithms are kept in separate files to ease machine-dependent tuning (e.g., assembly coding).
*/
/*
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*
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdct.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJUnitTest.java
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
No license file was found, but licenses were detected in source scan.

/*
 * jidctred.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M) algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step with an 8-to-4 step that produces the four averages of two adjacent outputs (or an 8-to-2 step producing two averages of four outputs, for 2x2 output). These steps were derived by computing the corresponding values at the end of the normal LL&M code, then simplifying as much as possible.
 *
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 *
 * See jidctint.c for additional comments.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctred.c
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 upsample is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

/
* jdmerge.c
*
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* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains code for merged upsampling/color conversion.
* *
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* R = Y + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
* *
* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c
No license file was found, but licenses were detected in source scan.

/ *
* jctrans.c
* 
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jctrans.c
No license file was found, but licenses were detected in source scan.

/ *
* jcprepct.c
* 
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
* 
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcprepct.c
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/
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
* 
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jeparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapimin.c
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/*
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
* 
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegint.h
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:
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 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmrgext.c
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/*
 * 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.

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* For conditions of distribution and use, see the accompanying README file.

This file contains image transformation routines and other utility code
used by the jpegtran sample application. These are NOT part of the core
JPEG library. But we keep these routines separate from jpegtran.c to
ease the task of maintaining jpegtran-like programs that have other user
interfaces.

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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 *
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */
/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */
/*
 * jQuery UI 1.7.2
 *
 * Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * and GPL (GPL-LICENSE.txt) licenses.
 *
 * http://docs.jquery.com/UI
 */
/**
 * jQuery.ScrollTo - Easy element scrolling using jQuery.
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
 * Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
 * Date: 2/8/2008
 * @author Ariel Flesler
 * @version 1.3.2
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.

/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.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.

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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.

*/
/*
 * 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.
 */

/*
 * djpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jmorecfg.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

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.\n
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 big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.\n
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.\n
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */

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

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

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

/*
 * 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 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 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 PBMPPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdppm.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):
/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager.  No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution.  You may need to modify it if you write a
 * custom memory manager.  If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */

Found in path(s):
/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform).  In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time).  Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,  
* The primary algorithm described there uses 11 multiplies and 29 adds.  
* We use their alternate method with 12 multiplies and 32 adds.  
* The advantage of this method is that no data path contains more than one  
  multiplication; this allows a very simple and accurate implementation in  
  scaled fixed-point arithmetic, with a minimal number of shifts.  
* We also provide IDCT routines with various output sample block sizes for  
  direct resolution reduction or enlargement without additional resampling:  
* N×N (N=1...16) pixels for one 8×8 input DCT block.  
* For N<8 we simply take the corresponding low-frequency coefficients of  
  the 8×8 input DCT block and apply an N×N point IDCT on the sub-block  
  to yield the downsampled outputs.  
* This can be seen as direct low-pass downsampling from the DCT domain  
  point of view rather than the usual spatial domain point of view,  
  yielding significant computational savings and results at least  
  as good as common bilinear (averaging) spatial downsampling.  
* For N>8 we apply a partial N×N 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 8×8 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src-rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.
*/

* jmemnobs.c
* 
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
Open Source Used In SVO 12.3.0  1716

* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

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reasons for developing this free software was to help force convergence on
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 * */

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.
 */

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

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.h

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains declarations for Huffman entropy decoding routines
* that are shared between the sequential decoder (jdhuff.c) and the
* progressive decoder (jdphuff.c). No other modules need to see these.
*/

found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.h

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

/*
* jdcolor.c

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains output colorspace conversion routines.
*/

found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.c

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

I J G 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 indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see 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
deXpend on any of the variables that describe the current scan in the JPEG
file, because these may change as the data input section advances into a new
scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the
file as one pass when buffered-image mode is not used, and to ignore data
input work completely when buffered-image mode is used. Note that the
library has no reliable way to predict the number of passes when dealing
with a progressive JPEG file, nor can it predict the number of output passes
in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because
there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char,
(signed) char, or short. Short will be used if samples wider than 8 bits are
to be supported (this is a compile-time option). Otherwise, unsigned char is
used if possible. If the compiler only supports signed chars, then it is
necessary to mask off the value when reading. Thus, all reads of JSAMPLE
values must be coded as "GETJSAMPLE(value)", where the macro will be defined
as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.
With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)
Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; // 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.
This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec’s internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (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'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.
In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term: system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small: interface to malloc and free library routines (or their equivalents)
- jpeg_get_large, jpeg_free_large: interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
- jpeg_mem_available: estimate available memory
- jpeg_open_backing_store: create a backing-store object
- read_backing_store, manipulate a backing-store object
- write_backing_store,
- close_backing_store
On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height,
with a DNL to give the true, smaller height at the end of the first scan.  
This would solve the space problems if the overestimate wasn't too great.  
However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's  
   Huffman decoder; this implies a speed penalty whether the feature is used  
   or not.
2. There is no way to hide the last-minute change in image height from an  
   application using the decoder. Thus *every* application using the IJG  
   library would suffer a complexity penalty whether it cared about DNL or  
   not.
We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a  
separate program that reads ahead to the DNL, then goes back and fixes the SOF  
marker. This is a much simpler solution and is probably far more efficient.  
Even if one wants piped input, buffering the first scan of the JPEG file needs  
a lot smaller temp file than is implied by the maximum-height method. For  
this approach we'd simply treat DNL as a no-op in the decompressor (at most,  
check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL.  
Something similar to the first scheme above could be applied if anyone ever  
wants to make that work.

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.
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcpam.c

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

/*
 * jquant1.c
 *
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 * Modifications:
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 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values.  Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant1.c

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/*
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrjpgcom.c

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/*
 * jcinit.c
 *
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 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjpeg, djpeg, jpegtran).
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
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 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 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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Modified 2002-2009 by Guido Vollbeding.
Modifications:
Copyright (C) 2009-2011, D. R. Commander.
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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.

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* Modifications:
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant2.c
No license file was found, but licenses were detected in source scan.

*/
* jdhuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.c
No license file was found, but licenses were detected in source scan.

{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf350
{\fonttbl\f0\fswiss\fcharset0 Helvetica;}
{\colorbtl;red255\green255\blue255;}
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;
; [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

ENDIF
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .data align=16 public use64 class=DATA
%endif
%define EXTN(name) name			; foo() -> foo

%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)----------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; ----(nasm -felf[64] -DELF ...)----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; ELF supports PIC
%define EXTN(name) name			; foo() -> foo

%elifdef AOUT; ----(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -faout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -faoutb -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_OWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT OWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; --------------------------------------------------------------------------
; External Symbol Name
;
ifndef EXTN
%define EXTN(name) _ %+ name	 ; foo() -> _foo
endif

; --------------------------------------------------------------------------
; Macros for position-independent code (PIC) support
;
ifndef GOT_SYMBOL
%undef PIC
endif

%ifdef PIC ; -------------------------------------------
%ifdef 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
cnst_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:
movecx, 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)
db0x8D0x9C;8D,9C
jmpnear 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)
db0x8D0x8C;8D,8C
jmpnear 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_GOT1
externGOT_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
; Align the next instruction on {2,4,8,16...}-byte boundary.
; ".balign n,,m" in GNU as

%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs:
times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
   db 0x90                               ; nop
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
   db 0x8D,0xC0,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
   db 0x8D,0xC0,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
   db 0x8D,0xAD,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
   db 0x8D,0x6C,0x25,0x00                      ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \
   db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \
   db 0xB,0xED ; mov ebp,ebp
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
   db 0x90 ; nop
%endmacro
; Align the next data on [2,4,8,16...]-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub    rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub    rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]  
add    rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]  
add    rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro
%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro
%endif
%endif
; -------------------------------------------------------------------------; Defines picked up from the C headers
;
%include "jsimdcfg.inc"
; -------------------------------------------------------------------------Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expandarchive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo1.2.90/simd/jsimdext.inc
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.

Open Source Used In SVO 12.3.0 1752


/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.
*/

*/

*/

*/

*/

/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.
*/

/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c
*/

Open Source Used In SVO 12.3.0 1753
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/search/search.js

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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst-tj.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* rdbmp.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jccolor.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) 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

*/
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

*/
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
* /

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
* /

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
* #define HAVE_PROTOTYPES
*/

/* Does your compiler support the declaration "unsigned char"?
* How about "unsigned short"?
* #define HAVE_UNSIGNED_CHAR
* #define HAVE_UNSIGNED_SHORT
*/

/* Define "void" as 'char' if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc()
* #define void char *
*/

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
* /
* #define const *
*/

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
* #undef CHAR_IS_UNSIGNED
*/

/* Define this if your system has an ANSI-conforming <stdio.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.
*/
#if defined _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
*/
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, 2012-2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains software version identification.
*/
# Copyright (C)2009-2011 D. R. Commander. All Rights Reserved.
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# - 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
# - Neither the name of the libjpeg-turbo Project nor the names of its
#   software without specific prior written permission.

IJG JPEG LIBRARY: CODING RULES

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For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
  then-part;
} else {
else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as

#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#endif

which is used like this:

struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).
If the code is to work on non-ANSI compilers, we cannot rely on a prototype
declaration to coerce actual parameters into the right types. Therefore, use
explicit casts on actual parameters whenever the actual parameter type is not
identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator
is defined to return int, yet size_t is defined as long. Needless to say,
this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(),
so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore,
we want it to be reentrant so that it can be used by applications that process
multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc;
   pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static
   wherever possible. (Note that our method-based calling conventions help this
   a lot: in many modules only the initialization function will ever need to be
called directly, so only that function need be externally visible.) All
global function names should begin with "jpeg_", and should have an
abbreviated name (unique in the first six characters) substituted by macro
when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module
   should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables
   that should be private to a module can be placed into private structures (see
   the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the
   library proper; source files that are not part of the library, such as cjpeg.c
   and djpeg.c, do not begin with "j". Keep source file names to eight
   characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep
   compression and decompression code in separate source files --- some
   applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the
modules that are used in cjpeg/djpeg but are not part of the JPEG library
proper. Those modules are not really intended to be used in other
applications.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdarith.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.c

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

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.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 in the documentation
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* *
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* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/
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From c51b66ebcace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's JERR_PPM_OUTOFRANGE enum value in lieu of our project-specific JERR_PPM_TOOLARGE enum value.

Fixes #258
---
cerror.h | 5 ++++
rdbmp.c | 7 ++++++
rdppm.c | 4 ++
3 files changed, 11 insertions(+), 5 deletions(-)
diff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
 * 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.
 * 
 @@ -48,6 +48,7 @@ JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
 JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
 JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
 JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
 JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
 JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
 JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@ JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
 #ifdef PPM_SUPPORTED
 JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
 JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
- JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
 JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")
+JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")
 JMESSAGE(JTRC_PGM, "%ux%u PGM image")
 JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
 JMESSAGE(JTRC_PPM, "%ux%u PPM image")
 diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
 * This file was part of the Independent JPEG Group's software:
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@
 typedef struct _bmp_source_struct {
  JDIMENSION row_width; /* Physical width of scanlines in file */
 int bits_per_pixel; /* remembers 8- or 24-bit format */

+ int cmap_length; /* colormap length */
} bmp_source_struct;

@@ -124,6 +125,7 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
{
    bmp_source_ptr source = (bmp_source_ptr) sinfo;
    register JSAMPARRAY colormap = source->colormap;
+  int cmaplen = source->cmap_length;
    JSAMPARRAY image_ptr;
    register int t;
    register JSAMPROW inptr, outptr;
@@ -140,6 +142,8 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
    outptr = source->pub.buffer[0];
    for (col = cinfo->image_width; col > 0; col--) {
        t = GETJSAMPLE(*inptr++);
+    if (t >= cmaplen)
+        ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
        *outptr++ = colormap[0][t]; /* can omit GETJSAMPLE() safely */
        *outptr++ = colormap[1][t];
        *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
        source->colormap = (*cinfo->mem->alloc_sarray)
            ((j_common_ptr) cinfo, JPOOL_IMAGE,
                (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+    source->cmap_length = (int)biClrUsed;
/* and read it from the file */
    read_colormap(source, (int) biClrUsed, mapentrysize);
/* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
    JSAMPROW pixrow;/* FAR pointer to same */
    size_t buffer_width;/* width of I/O buffer */
    JSAMPLE *rescale;/* => maxval-remapping array, or NULL */
-  int maxval;
+  unsigned int maxval;
} ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
    }
if (val > maxval)
    - ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+    ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);
return val;
}
--
2.17.2

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

;/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
 * allocated wide enough to correspond to the desired output width).
 * The caller (the prep controller) is responsible for vertical padding.
 *
 * The downsampler may request "context rows" by setting need_context_rows
 * during startup. In this case, the input arrays will contain at least
 * one row group's worth of pixels above and below the passed-in data;
 * the caller will create dummy rows at image top and bottom by replicating
 * the first or last real pixel row.
 *
 * An excellent reference for image resampling is
 *
 * The downsampling algorithm used here is a simple average of the source
 * pixels covered by the output pixel. The hi-falutin sampling literature
 * refers to this as a "box filter". In general the characteristics of a box
 * filter are not very good, but for the specific cases we normally use (1:1
 * and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
 * nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pmnconvol). When
* enabled, each input pixel $P$ is replaced by a weighted sum of itself and its
* eight neighbors. $P$'s weight is $1-8\times SF$ and each neighbor's weight is $SF$.
* where $SF = (\text{smoothing}_\text{factor} / 1024)$.
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86,
x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as
fast as libjpeg, all else being equal. On other types of systems,
libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue
of its highly-optimized Huffman coding routines. In many cases, the
performance of libjpeg-turbo rivals that of proprietary high-speed JPEG
codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less
powerful but more straightforward TurboJPEG API. libjpeg-turbo also features
colorspace extensions that allow it to compress from/decompress to 32-bit and
big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java
interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated
derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and
VirtualGL projects made numerous enhancements to the codec in 2009, and in
early 2010, libjpeg-turbo spun off into an independent project, with the goal
of making high-speed JPEG compression/decompression technology available to a
broader range of users and developers.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/deb-control.tmpl

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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c

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

; jdct.inc - private declarations for forward & reverse DCT subsystems
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]
;
; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)
%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; ---------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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POSSIBILITY OF SUCH DAMAGE.

*******************************************************************************
**     Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress
JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing
and decompressing JPEG images in memory. It also provides some functionality
that would not be straightforward to achieve using the underlying libjpeg
API, such as generating planar YUV images and performing multiple
simultaneous lossless transforms on an image. The Java interface for
libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and
decompressing JPEG images. It is more difficult to use than the TurboJPEG
API but also more powerful. The libjpeg API implementation in libjpeg-turbo
is both API/ABI-compatible and mathematically compatible with libjpeg v6b.
It can also optionally be configured to be API/ABI-compatible with libjpeg v7
and v8 (see below.)

There is no significant performance advantage to either API when both are used
to perform similar operations.

======================
Installation Directory
This document assumes that libjpeg-turbo will be installed in the default
directory (/opt/libjpeg-turbo on Un*x and Mac systems and
c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of
libjpeg-turbo resides in a different directory, then adjust the instructions
accordingly.

Replacing libjpeg at Run Time

Un*x

If a Un*x application is dynamically linked with libjpeg, then you can replace
libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH.
For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
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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
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:

-\(\text{Wl,}-\text{Bstatic}\) -\(\text{ljpeg}\) -\(\text{Wl,}-\text{Bdynamic}\)

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

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

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:

\begin{verbatim}
    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 */
\end{verbatim}

Setting cinfo.in_color_space (compression) or cinfo.out_color_space 

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(decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```c
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifdef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===============================================================================
libjpeg v7 and v8 API/ABI Emulation
===============================================================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)
By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeq: 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.)

-- cjpeq: 32-bit BMP support

-- cjpeq: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not
demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when
emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block
sizes other than 8x8. Providing support for this new format would be
feasible (particularly without full acceleration.) However, until/unless
the format becomes either an official industry standard or, at minimum, an
accepted solution in the community, we are hesitant to implement it, as
there is no sense of whether or how it might change in the future. It is
our belief that SmartScale has not demonstrated sufficient usefulness as a
lossless format nor as a means of quality enhancement, and thus, our primary
interest in providing this feature would be as a means of supporting
additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not
supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure
(color_transform), thus making the ABI backward incompatible with that of
libjpeg v8. This new field was introduced solely for the purpose of supporting
lossless SmartScale encoding. Further, there was actually no reason to extend
the API in this manner, as the color transform could have just as easily been
activated by way of a new JPEG colorspace constant, thus preserving backward
ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not
generally accomplish anything that can't already be accomplished better with
existing, standard lossless formats. Thus, at this time, it is our belief that
there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=================================================================================
In-Memory Source/Destination Managers
=================================================================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in
which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
**     Performance Pitfalls
*******************************************************************************

==================
Restart Markers
==================

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README-turbo.txt
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdtrans.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.
/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMlZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMlZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 */
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegcomp.h

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

/ *
* 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 stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc-tj.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.c
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cderror.h

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

1.2.90 (1.3 beta1)
==================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly
necessary to do so, because TurboJPEG uses versioned symbols, and if a function
changes in an ABI-incompatible way, that function is renamed and a legacy
function is provided to maintain backward compatibility. However, certain
Linux distro maintainers will blindly reject any library that is not versioned,
so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG
image from and decompress a JPEG image to an arbitrary position in a large
image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides
symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32.
This allows those libraries to be used on MultiArch-compatible systems (such as
Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems
without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench' .

[8] cjjpeg 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 "i" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on 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 jsimddefg.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 (cjjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
==================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)
[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.
0.0.93
======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/ *
* jsimd_i386.c
 *
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* *
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* *
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
* *
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmainct.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jinclude.h

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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
* rdswitch.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
This file contains routines to process some of cjpeg's more complicated command-line switches. Switches processed here are:

- \texttt{\textasciitilde\text{-qtables} file} \quad \text{Read quantization tables from text file}
- \texttt{\textasciitilde\text{-scans} file} \quad \text{Read scan script from text file}
- \texttt{\textasciitilde\text{-quality} N[,N,...]} \quad \text{Set quality ratings}
- \texttt{\textasciitilde\text{-qslots} N[,N,...]} \quad \text{Set component quantization table selectors}
- \texttt{\textasciitilde\text{-sample} HxV[,HxV,...]} \quad \text{Set component sampling factors}

*/

Found in path(s):
* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdswitch.c
* No license file was found, but licenses were detected in source scan.

; ; 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]

; pompous-resisters to make ordering of RGB configurable
;
%if RGB\_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB\_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB\_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6

Open Source Used In SVO 12.3.0 1798
%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
%endif

; -----------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
/*

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.                   *
**************************************************************************
*
* These routines may need modification for non-Unix environments or *
* specialized applications. As they stand, they assume output to *
* an ordinary stdio stream. */
*/

/*

* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its *
* documentation for any purpose and without fee is hereby granted, provided *
* that the above copyright notice appear in all copies and that both that *
* copyright notice and this permission notice appear in supporting *
* documentation. This software is provided "as is" without express or *
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of *
* CompuServe Incorporated. GIF(sm) is a Service Mark property of *
* CompuServe Incorporated." */
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrgif.c

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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Decompression parameter selection
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Abbreviated datastreams and multiple images
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Really raw data: DCT coefficients
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,... 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;
it's 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). Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination
module which knows how to write to a stdio stream. You can use your own
destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio
stream beforehand. Typical code for this step looks like:

FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the
output file unchanged. On non-Unix systems the stdio library may perform
newline translation or otherwise corrupt binary data. To suppress this
behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See
cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3),
if that's more convenient. You may not change the destination between
calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following
fields in the JPEG object (cinfo structure):

image_width Width of image, in pixels
image_height Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions
of 1 to 64K pixels in either direction. The input color space is typically
RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special
color spaces", later, for more info.) The in_color_space field must be
assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or
JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the
image is encoded. Most applications don't need or want to know about all
these parameters. You can set all the parameters to reasonable defaults by
calling jpeg_set_defaults(); then, if there are particular values you want
to change, you can do so after that. The "Compression parameter selection"
section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(),
because the defaults depend on the source image colorspace. However the
other three source image parameters need not be valid until you call
jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more
than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary
source image info and other parameters, call jpeg_start_compress() to begin
a compression cycle. This will initialize internal state, allocate working
storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream
will be written. This is appropriate in most cases. If you think you might
want to use an abbreviated datastream, read the section on abbreviated
datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG
parameters or other fields of the JPEG object until you have completed
the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines()
one or more times. You can pass one or more scanlines in each call, up
to the total image height. In most applications it is convenient to pass
just one or a few scanlines at a time. The expected format for the passed
data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec
contains some weasel wording about how top and bottom are application-defined
terms (a curious interpretation of the English language...) but if you want
your files to be compatible with everyone else's, you WILL use top-to-bottom
order. If the source data must be read in bottom-to-top order, you can use
the JPEG library's virtual array mechanism to invert the data efficiently.
Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far
in the next_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data.
example.c shows the following code for the case of a full-size 2-D source
array containing 3-byte RGB pixels:

    JSAMPROW row_pointer[1]; /* pointer to a single row */
    int row_stride; /* physical row width in buffer */

    row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

    while (cinfo.next_scanline < cinfo.image_height) {
        row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
        jpeg_write_scanlines(&cinfo, row_pointer, 1);
    }

jpeg_write_scanlines() returns the number of scanlines actually written.
This will normally be equal to the number passed in, so you can usually
ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height,
  the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun
  will cause the compressor to return before accepting all the passed lines.
  This feature is discussed under "I/O suspension", below. The normal
  stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of
next_scanline.

6. jpeg_finish_compress(…);

After all the image data has been written, call jpeg_finish_compress() to
complete the compression cycle. This step is ESSENTIAL to ensure that the
last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```c
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:
8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

    struct jpeg_decompress_struct cinfo;
    struct jpeg_error_mgr jerr;
    ...
    cinfo.err = jpeg_std_error(&jerr);
    jpeg_create_decompress(&cinfo);

    (Both here and in the IJG code, we usually use variable name "cinfo" for
both compression and decompression objects.)

2. Specify the source of the compressed data (e.g., a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE *infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```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
decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include:

- `output_width`: image width and height, as scaled
- `output_height`
- `out_color_components`: # of color components in out_color_space
- `output_components`: # of color components returned per pixel
- `colormap`: the selected colormap, if any
- `actual_number_of_colors`: number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:
jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object.
The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged.
The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end;
It will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
--------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space,
and calls jpeg_set_colorsace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
               const unsigned int *basic_table,
               int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535.
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.
unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. 
Set restart_interval to specify the exact interval in MCU blocks. 
Set restart_in_rows to specify the interval in MCU rows. (If 
restart_in_rows is not 0, then restart_interval is set after the 
image width in MCUs is computed.) Defaults are zero (no restarts). 
One restart marker per MCU row is often a good choice. 
NOTE: the overhead of restart markers is higher in grayscale JPEG 
files than in color files, and MUCH higher in progressive JPEGs. 
If you use restarts, you may want to use larger intervals in those 
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a 
single-scan sequential JPEG file. If not NULL, scan_info points to 
an array of scan definition records of length num_scans. The 
compressor will then write a JPEG file having one scan for each scan 
definition record. This is used to generate noninterleaved or 
progressive JPEG files. The library checks that the scan array 
defines a valid JPEG scan sequence. (jpeg_simple_progression creates 
a suitable scan definition array for progressive JPEG.) This is 
discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for 
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c 
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and 
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space 
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker. 
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). 
You should set it to 1.02 (major=1, minor=2) if you plan to write 
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; 
not used otherwise. density_unit may be 0 for unknown, 
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that corresponds to
cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance
is mainly only useful if chrominance subsampling is disabled. 2x2
chrominance subsampling (AKA "4:2:0") is the default, but you can
explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.

Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

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.

```c
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.

```c
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.

```c
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.

```c
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.

```c
J_DITHER_MODE dither_mode
```

Selects color dithering method. Supported values are:

- `JDITHER_NONE`: no dithering; fast, very low quality
- `JDITHER_ORDERED`: ordered dither; moderate speed and quality
- `JDITHER_FS`: Floyd-Steinberg dither; slow, high quality

Default is `JDITHER_FS`. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when `two_pass_quantize` is TRUE or when you supply an external color map, you'll get F-S dithering.)

When `quantize_colors` is TRUE, the target color map is described by the next two fields. colormap is set to NULL by `jpeg_read_header()`. The application
can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

```
JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.
```

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

```
rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)
```

Special color spaces
--------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

```
RGB => YCbCr
```
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in j param.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG
object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
-----------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.
A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- **init_destination (j_compress_ptr cinfo)**
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

- **empty_output_buffer (j_compress_ptr cinfo)**
  This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

- **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:

```c
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

**init_source (j_decompress_ptr cinfo)**
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

**fill_input_buffer (j_decompress_ptr cinfo)**
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

**skip_input_data (j_decompress_ptr cinfo, long num_bytes)**
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it’s not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

**resync_to_restart (j_decompress_ptr cinfo, int desired)**
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.

I/O suspension
-------------

Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want
to control to return to the outer loop, rather than expecting that the buffer can
be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we
describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement
a real multi-tasking capability.
To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but
for safety’s sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more
common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior
buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
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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

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 (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten
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
jpeg_start_compress(&cinfo, FALSE);
write data..
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters()
for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

if (cinfo.quant_tbl_ptrs[n] == NULL)
  cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
  /* Qtable[] is desired quantization table, in natural array order */
  quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
  cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = 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:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```
If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.
   The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this
If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are
using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV
images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as 
cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
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 downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
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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 frammmish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or
allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring

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Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter; /* work units completed in this pass */
- long pass_limit; /* total number of work units in this pass */
- int completed_passes; /* passes completed so far */
- int total_passes; /* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

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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

\[
\text{ptr} = (\text{cinfo->mem->alloc_small}) ((\text{j_common_ptr}) \text{cinfo}, \text{JPOOL_IMAGE}, \text{size});
\]

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/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.
The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.
The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSN() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that char is at least 8 bits wide 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.

cchar can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary
depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/libjpeg.txt
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TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpegturbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.
Performance Pitfalls

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/README

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/*
 * 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.
 */

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/*
 * cdjpeg.h
 *
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 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
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; for more details.

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
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/*
 * 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):
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/*
 * jcmarker.c
 *
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 *
 * This file contains routines to write JPEG datastream markers.
 */

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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...)
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemmgr.c
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/*
* jidctflt.c
*
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* This file is part of the Independent JPEG Group's software.
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*
* 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.
*/
/*
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 *
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 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */

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/
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd_none.c
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libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

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/*
* 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,
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*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
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libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt

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 * jfdctfst.c
 *
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*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctfst.c

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 * wrule.c
 *
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 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
 */opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrrle.c
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archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/ libjpeg-turbo-1.2.90/simd/jcquats2i.asm 
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/simd/jdcolss2.asm 
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/simd/jdsamss2.asm 
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/simd/jcqntsse.asm
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 * wrppm.c
 *
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 *
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 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

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1.167 perl-podlators 2.5.1 3.el7

1.168 commons-codec 1.6
1.168.1 Available under license:
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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains
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1.169 smartmontools 6.5-r0.13

1.169.1 Available under license:

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

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

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

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

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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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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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</pre>
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### xwd utility
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1.188 gobject-introspection 1.56.1-1.el7

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1.189 popt 1.16-r3.12
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/ConstraintTarget.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2.0-2-sources-3.jar/javax/validation/ConstraintValidatorContext.java
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1.191 ecj 22

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1.192 junit-platform-commons 1.5.2

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1.195 zlib 1.1.3

1.196 python-iniparse 0.4 9.el7

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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1.197 slf4j-log4j 1.7.30

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1.198 libtomcrypt 1.17

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```c
 /*
 * SHA-512
 * Implementation derived from LibTomCrypt (Tom St Denis)
 * 
 * LibTomCrypt is a library that provides various cryptographic
 * algorithms in a highly modular and flexible manner.
 * 
 * The library is free for all purposes without any express
 * guarantee it works.
 * 
 * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
 */
```

1.199 libtpl 1.6.1

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jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/base/Platform.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/cache/ReferenceEntry.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
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jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/base/package-info.java
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jar/com/google/common/io/Flushables.java
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jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/AbstractSequentialIterator.java
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jar/com/google/common/collection/ForwardingImmutableCollection.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/NetworkBuilder.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/ConfigurableNetwork.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/EndpointPair.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/EndpointPairIterator.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/ConfigurableValueGraph.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/ElementOrder.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Joiner.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/primitives/Bytes.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/eventbus/Subscriber.java
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*  
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/eventbus/Dispatcher.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/Count.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
  jar/com/google/common/collection/GeneralRange.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/TimeoutFuture.java

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jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/Monitor.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/util/concurrent/InterruptibleTask.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/hash/FarmHashFingerprint64.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Present.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/ Enums.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/net/HttpHeaders.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/MessageDigestHashFunction.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/WrappingExecutorService.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/Table.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableSortedSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/UnmodifiableIterator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/TreeBasedTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Serialization.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Range.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableListMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Platform.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/RegularImmutableMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/math/PairEdStatsAccumulator.java
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 */

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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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*/

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* */opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/Traverser.java
* */opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/AbstractBaseGraph.java
* */opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collect/ObjectCountHashMap.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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 */

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/RangeMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/CompactHashMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/FilteredKeySetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/CompactHashSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/FilteredSetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/ForwardingImmutableSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/ForwardingDeque.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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* /
*/

/*
* 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/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/ArrayListMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/NaturalOrdering.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/EnumHashBiMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/ForwardingIterator.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/TreeMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/Interner.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/MapDifference.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/ForwardingMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/Lists.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/NullsLastOrdering.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3.jar/com/google/common/collection/LinkedHashMultiset.java
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jar/com/google/common/collect/AbstractSetMultimap.java
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jar/com/google/common/collect/Iterators.java
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jar/com/google/common/collect/TreeMultiset.java
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jar/com/google/common/collect/ByFunctionOrdering.java
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-
jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-

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jar/com/google/common/collection/HashMultimap.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/collection/AbstractMapBasedMultimap.java

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* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1126075559_1611565927.81/0/guava-28-1-android-sources-3-jar/com/google/common/cache/Striped64.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.
 *
 * TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

*/

1.201 groovy-test-junit5 2.5.9

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groovy.junit5.plugin.JUnit5Runner

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* /opt/cola/permits/1194549474_1629492856.32/0/groovy-test-junit5-2-5-9-sources-Jar/groovy/junit5/plugin/JUnit5Runner.java
* /opt/cola/permits/1194549474_1629492856.32/0/groovy-test-junit5-2-5-9-sources-Jar/groovy/junit5/plugin/GroovyJUnitRunnerHelper.groovy

1.202 file 5.27
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1.203 libthai 0.1.14 9.el7

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Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
  traditional one-character options, and GNU'ish
  --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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OW2

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

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

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

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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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* /opt/ws_local/PERMITS_SQL/1057115486_1592211266.37/0/grpc-stub-1-28-1-sources-jar/io/grpc/stub/AbstractFutureStub.java
* /opt/ws_local/PERMITS_SQL/1057115486_1592211266.37/0/grpc-stub-1-28-1-sources-jar/io/grpc/stub/AbstractBlockingStub.java
* /opt/ws_local/PERMITS_SQL/1057115486_1592211266.37/0/grpc-stub-1-28-1-sources-jar/io/grpc/stub/InternalClientCalls.java
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1.223 jcommander 1.48

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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/ParametersDelegate.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/DoubleConverter.java
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* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/Parameters.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-jar/com/beust/jcommander/MissingCommandException.java
* /opt/cola/permits/1136044940_1613664795.31/0/jcommander-1-48-sources-1-
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jar/com/beust/jcommander/converters/NoConverter.java
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1.226 d-bus 1.10.10

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  jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
  jar/org/springframework/aop/ClassFilter.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
  jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
  jar/org/springframework/aop/framework/aspectj/annotation/AnnotationMatchingPointcut.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
  jar/org/springframework/aop/support/ClassFilters.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-
  jar/org/springframework/aop/support/Pointcuts.java

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  jar/org/springframework/aop/ThrowsAdvice.java  

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  jar/org/springframework/aop/MethodBeforeAdvice.java  
  /org/springframework/aop/framework/autoproxy/target/AbstractBeanFactoryBasedTargetSourceCreator.java  
  /org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java  
  /org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java  
  /org/springframework/aop/scope/ScopedProxyFactoryBean.java  
  /org/springframework/aop/TruePointcut.java
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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/aopalliance/intercept/ConstructorInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/ProxyFactory.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/aopalliance/intercept/Invocation.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/aopalliance/aop/Advice.java

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* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/AopContext.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068412600_1594398559.49/0/spring-aop-5-2-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java

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/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the {@code MBeanServer} for bean references.
 *
 * <p>This {@code FactoryBean} is a direct alternative to the
 * other standard JMX 1.2 API to access the platform's
 * {@code MBeanServer}.
 *
 * <p>See the javadocs for WebSphere's
/com/ibm/websphere/management/AdminServiceFactory.html">{code AdminServiceFactory}</a>
 * and
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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  /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value specified conditions] match.
 * <p>A &lt;em&gt;condition&lt;/em&gt; 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:
 * &lt;ul&gt;
 * &lt;li&gt;as a type-level annotation on any class directly or indirectly annotated with
 * [@code @Component], including [@link Configuration @Configuration] classes&lt;/li&gt;
 * &lt;li&gt;as a meta-annotation, for the purpose of composing custom stereotype annotations&lt;/li&gt;
 * &lt;li&gt;as a method-level annotation on any [@link Bean @Bean] method&lt;/li&gt;
 * &lt;/ul&gt;
 * <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>**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 &lt;em&gt;composed annotation&lt;/em&gt; that is meta-annotated with
 * [@code @Conditional] must not be declared as [@code @Inherited].
 *
 * @author Phillip Webb
 * @author Sam Brannen
 * @since 4.0
 * @see Condition
 */

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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/cache/support/CompositeCacheManager.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/org/springframework/scripting/bsh/BshScriptFactory.java
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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/executor/ExecutorBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/executor/CachePut.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/executor/CacheEvaluationContext.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/executor/SimpleKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/scheduling/config/ExecutorBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-jar/scheduling/config/TemporalAccessorPrinter.java

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* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/ws_local/PERMITS_SQL/1068412579_1594397372.64/0/spring-context-5-2-5-release-sources-1-
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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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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF. BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.
BIRT Engine is a report engine which generates report from defined report and related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.
You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

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

Running the BIRT Engine in Console
----------------------------------
In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
genReport xxx.rptdesign
xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by .\xxx.rptdesign

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified
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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,
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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.

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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1.243 libnl3 3.2.28

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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
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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These requirements apply to the modified work as a whole. If
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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 bufflers
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

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for CyberLogin for Linux which allows logging onto EON
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for merging the nxt2002 and nxt2004 modules into a
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 * /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
 * /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/jmx/support/RegistrationPolicy.java

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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
*<p>Exposes the {@code MBeanServer} for bean references.
*<p>This {@code FactoryBean} is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's {@link MBeanServer}.
*<p>See the javadocs for WebSphere's
* and
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/context/support/SimpleThreadScope.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/validation/DataBinder.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/cache/support/AbstractCacheManager.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/cache/support/StaticMessageSource.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/cache/interceptor/CacheOperationSource.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/jmx/access/MBeanClientInterceptor.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionScanner.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/jmx/access/MBeanClientInterceptor.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
jar/org/springframework/context/annotation/ConfigurationClass.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-
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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 programmatically
 * 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
*/

Found in path(s):
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* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationFactory.java
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* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/jmx/support/MetricType.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/scripting/support/StaticScriptSource.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/validation/beanvalidation/MethodValidationPostProcessor.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/scripting/ScriptFactory.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/instrument/classloading/weblogic/WebLogicClassPreProcessorAdapter.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/context/i18n/SimpleLocaleContext.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1-jar/org/springframework/validation/DefaultMessageCodesResolver.java
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* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/validation/validation/ValidationAwareModelMap.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/validation/validation/BeanValidationCustomValidatorBean.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/context/expression/EnvironmentAccessor.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/context/scheduling/config/TaskExecutorFactoryBean.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/context/scheduling/config/TaskExecutorFactoryBean.java
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/context/scheduling/config/LoadTimeWeaverAwareProcessor.java

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 */

/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 */

---

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* @author Stephane Nicoll
* @since 4.1
*/

Found in path(s):
* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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* /opt/cola/permits/1140120845_1614734527.7/0/spring-context-5-2-4-release-sources-1.jar/org/springframework/context/ApplicationEventPublisherAware.java
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1.255 pam 1.1.8 23.el7

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1.258 dhcp 4.3.4

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

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
* 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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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was
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1.264 spring-security-web 5.3.1.RELEASE

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jar/org/springframework/security/web/csrf/CsrfTokenRepository.java
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* /opt/ws_local/PERMITS_SQL/1073091941_1595271646.16/0/spring-security-web-5-3-1-release-sources-jar/org/springframework/security/web/jackson2/WebServletJackson2Module.java
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* /opt/ws_local/PERMITS_SQL/1073091941_1595271646.16/0/spring-security-web-5-3-1-release-sources-jar/org/springframework/security/web/jackson2/WebAuthenticationDetailsMixin.java
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/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * {@link #queueCapacity(int) queueCapacity} is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in {@link java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor} for
 * more details.
 * <p>By default this is set to {@code Integer.MAX_VALUE}.
 */

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1.282 ncurses 5.9-14.20130511.el7_4

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BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

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

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

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

The Website for BIRT.

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

Running the BIRT Engine in Console

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

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign
   xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by \xxx.rptdesign
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* 
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* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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1.295 keyutils 1.5.8 3.el7

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

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

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

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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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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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goproperties - properties file decoder for Go

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Gocheck - A rich testing framework for Go

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

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1.301 webencodings 0.5.1

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
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from setuptools import setup, find_packages
import io
from os import path
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(  
  path.join(path.dirname(__file__), '__init__.py'),  
  encoding='utf-8')
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(  
  path.join(path.dirname(__file__), 'README.rst'),  
  encoding='utf-8')
).read()

setup(  
  name='webencodings',  
  version=VERSION,  
  url='https://github.com/SimonSapin/python-webencodings',  
  license='BSD',  
  author='Simon Sapin',  
  author_email='simon.sapin@exyr.org',  
  maintainer='Geoffrey Sneddon',  
  maintainer_email='me@gsnedders.com',  
  description='Character encoding aliases for legacy web content',  
  long_description=LONG_DESCRIPTION,  
  classifiers=[    'Development Status :: 4 - Beta',    'Intended Audience :: Developers',    'License :: OSI Approved :: BSD License',    'Programming Language :: Python',    'Programming Language :: Python :: 2',    'Programming Language :: Python :: 2.6',    'Programming Language :: Python :: 2.7',    'Programming Language :: Python :: 3',    'Programming Language :: Python :: 3.3',    'Programming Language :: Python :: 3.4',    'Programming Language :: Python :: 3.5',    'Programming Language :: Python :: 3.6',    'Programming Language :: Python :: Implementation :: CPython',    'Programming Language :: Python :: Implementation :: PyPy',    'Topic :: Internet :: WWW/HTTP',  ],)
packages=find_packages(),
)

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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===

webencodings.mklables
~~~~~~~~~~~~~~~~~~~~

Regenarate the webencodings.labels module.

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===

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = "\n```

webencodings.labels
~~~~~~~~~~~~~~~~~~

Map encoding labels to their name.

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# XXX Do not edit!
# This file is automatically generated by mklabels.py
LABELS = {
    ""
}
labels = [
    (repr(assert_lower(label)).lstrip('u'),
     repr(encoding['name']).lstrip('u'))
    for category in json.loads(urlopen(url).read().decode('ascii'))
    for encoding in category['encodings']
    for label in encoding['labels']]
max_len = max(len(label) for label, name in labels)
parts.extend(
    '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
    for label, name in labels)
parts.append('}

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules. For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
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Classifier: Topic :: Internet :: WWW/HTTP

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

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python-webencodings
====================

This is a Python implementation of the `WHATWG Encoding standard`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
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In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

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1.302 go-runtime 1.9.2
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* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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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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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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1.306 groovy-docgenerator 2.5.9

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1.307 libjpeg-turbo 1.5.0

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1.308 pixman 0.34.0 1.el7

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* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources.jar/io/grpc/internal/LongCounter.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources.jar/io/grpc/internal/TimeProvider.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources.jar/io/grpc/internal/OverrideAuthorityNameResolverFactory.java
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* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ManagedClientTransport.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ObjectPool.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ConnectionClientTransport.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/LogExceptionRunnable.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/AbstractSubchannel.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ApplicationThreadDeframer.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/util/TransmitStatusRuntimeExceptionInterceptor.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/RetriableStream.java
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* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ClientTransportFactory.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ServerStream.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/AbstractManagedChannelImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ClientStreamListener.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/MessageDeframer.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/SharedResourceHolder.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ReadableBuffers.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/GrpcUtil.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/MessageFramer.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/util/MutableHandlerRegistry.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/AbstractServerImplBuilder.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/Stream.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ServerTransportListener.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/AbstractClientStream.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ServerImpl.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ForwardingReadableBuffer.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ReadableBuffer.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ClientCallImpl.java
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* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ServerStreamListener.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/TransportFrameUtil.java
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* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ServiceConfigState.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/TransportProvider.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/util/ForwardingClientStreamTracer.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ConscryptLoader.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/JsonUtil.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/SerializingExecutor.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/Http2ClientStreamTransportState.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ClientStream.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ServerListener.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/CompositeReadableBuffer.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/AbstractStream.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/StreamListener.java
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* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/JsonUtil.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/ConscryptLoader.java
* /opt/ws_local/PERMITS_SQL/1057115375_1592211260.47/0/grpc-core-1-28-1-sources-jar/io/grpc/internal/JsonUtil.java
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1.316 jetty-io 9.4.16.v20190411

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

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

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


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

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

Oracle OpenJDK

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* java.sun.security.ssl

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

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org.apache.taglibs:taglibs-standard-impl

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

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

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

org.eclipse.jetty.toolchain:jettyschemas

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Assorted

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/*
*/
/*
libudev - interface to udev device information
*/

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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
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Otherwise, if the work is a derivative of the Library, you may
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1.325 jackson-databind 2.10.1

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1.326 device-mapper-multipath 0.4.9-134.el7_9

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

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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OW2

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

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

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.329 netty-transport-native-kqueue

4.1.45.Final

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

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-util-scan
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https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.337 python 2.7.0-r0.13
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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.

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1.340 asm 5.0.4

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```java
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/**
* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]))
* version.
* @param mv
* the <code>MethodVisitor</code> to send the resulting inlined
```
method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see [@link Opcodes]). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type]).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* [link Type#getInternalName() getInternalName]). May be
* <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
 * Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [@link Opcodes]).
 * @param name
 * the method's name.
 */
* @param desc
*     the method's descriptor (see [link Type]).
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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/**
 * Constructs a new [link Textifier]. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
*/
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 */
/**
 * Constructs a new <i>ClassNode</i>. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the <i>@link ClassNode(int)</i>
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the first instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 */
the local variable's index in each range. This array must have
the same size as the 'start' array.

@param desc
the class descriptor of the annotation class.

/**

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
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 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
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* [AnalyzerAdapter(int, String, String, MethodVisitor)]
* version.
*
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see [Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [Type]).
* @param mv
* the method visitor to which this adapter delegates calls. May
* be <tt>null</tt>.
* @throws IllegalStateException
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1.341 libxshmfence 1.2 1.el7

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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/dom/events/EventImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xml/serialize/DOMSerializer.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/dv/xs/XSObjectList.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
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  jar/org/apache/wml/dom/WMLAnchorElement.java
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  jar/org/apache/wml/dom/WMLInputElementImpl.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-
  jar/org/apache/wml/dom/WMLRefreshElementImpl.java
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  jar/org/apache/html/dom/HTMLTableCellElementImpl.java
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  jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
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Checks if this content model has had its min/maxOccurs values reduced for purposes of speeding up UPA. If so, this content model should not be used for any purpose other than checking unique particle attribution. @return a boolean that says whether this content has been compacted for UPA

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DOM Level 3 LS CR - Experimental.
* Create a new <code>LSParser</code>. The newly constructed parser may
then be configured by means of its <code>DOMConfiguration</code> object, and used to parse documents by means of its <code>parse</code> method.

* @param mode The <code>mode</code> argument is either
* <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
* <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
* <code>LSParser</code> that is created will operate in synchronous
* mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
* <code>LSParser</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>LSParser</code>. Note that no lexical checking
* is done on the absolute URI. In order to create a
* <code>LSParser</code> for any kind of schema types (i.e. the
* LSParser will be free to use any schema found), use the value
* <code>null</code>.

* applications must use the value
* <code>"http://www.w3.org/2001/XMLSchema"</code>, For XML DTD [<a href='http://www.w3.org/TR/2000/REC-xml-20001006'/>XML 1.0</a>],
* 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>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.

<p>Note: By default, the newly created <code>LSParser</code> does not contain a <code>DOMErrorHandler</code>, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>"
* configuration parameter is <code>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>error-handler</code> configuration
* parameter on the new created <code>LSParser</code> contains a
* reference to the default error handler.

* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/

Found in path(s):
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dm/impl/CoreDOMImplementationImpl.java
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1.346 spring-web 5.2.5.RELEASE

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*/

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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/ServletRequestHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/DefaultUriBuilderFactory.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/MultipartBodyBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/MultipartBodyBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/MultipartBodyBuilder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/client/MultipartBodyBuilder.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-
  jar/org/springframework/web/bind/annotation/Mapping.java

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  jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java

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# 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
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# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
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# The registry is at <https://www.iana.org/assignments/media-types/>.
#
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#
# 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/atomcat+xml
application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
application/java-vmclass
application/javascript
# application/jose
# application/jose+json
# application/jrd+json
application/json
# 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
t# application/macwriteii
application/mads+xml
t# application/marc
application/marcxml+xml
# application/mathematica
application/mathml+xml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml
# application/merge-patch+json
application/metalink+xml
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml
# application/merge-patch+json
application/metalink+xml
application/metalink4+xml			meta4
application/mets+xml			mets
# application/mf4
# application/mikey
application/mods+xml			mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21m21 mp21 application/mp4mp4s
# 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		doc dot
# 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	bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda
doada
# application/odx
application/oebps-package+xml
application/oggogx
application/omdoc+xml
application/oxps+xml
application/onenote
onenotec onetoc onetoc2 onetmp onepkg
application/oxps+xml
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml
application/pdf
# application/pdx
application/pgp-encryptedpgp
# application/pgp-keys
application/pgp-signatureasc sig
application/pics-rules
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10p10
application/pkcs12
application/pkcs7-mime7mp7c
application/pkcs7-signature7ps
application/pkcs8p8
application/pkix-attr-certac
application/pkix-certcer
application/pkix-crlcerl
application/pkix-pkipathpkipath
application/pkixemppki
application/pls+xmlpls
application/postscriptai eps ps
application/ppsp-tracker+json
application/problem+json
application/problem+xml
# application/problem+json
# application/prs.titrax-sheet
application/prs.alvestrand.titrax-sheet
application/prs.cwwcww
application/prs.hpub+zip
application/prs.nprend
application/prs.plucker
application/prs.rdf+xml XML-crypt
application/prs.xsf+xml
application/pskc+xmlpskcxml
application/qsig
application/raptorfec
application/rdap+json
application/rdf+xmlrdf
application/reginfo+xmlxmlrif
application/relax-ng-compact-syntaxxml
application/remote-printing
application/reputon+json
application/resource-lists+xmlxmlrl
application/resource-lists-diff+xmlxmlrlid
application/rfc+xmlxml
application/riscos
application/rlmi+xmlxml
application/rls-services+xmlxmlrs
application/rpki-ghostbusters+xmlxmlgb
application/rpki-manifest+xmlxmlmft
application/rpki-roa+xmlxmlroa
application/rpki-updown
application/rsd+xmlxmlsd
application/rss+xmlxmlrss
application/rtf+xmlxmlrtf
application/rtx
application/samlassertion+xmlxml
application/vnd.cloanto.rp9rp9
application/vnd.clonk.c4group4c c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config-1lamc
application/vnd.cluetrust.cartomobile-config-pkg-1lamz
# application/vnd.coffeescript
# application/vnd.collection+json
# application/vnd.collection.doc+json
# application/vnd.collection.next+json
# application/vnd.comicbook+zip
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application/vnd.crick.clicker.keyboard.clkk
application/vnd.crick.clicker.palette.clkp
application/vnd.crick.clicker.template.clkt
application/vnd.crick.clicker.wordbank.clkw
application/vnd.criticaltools.wbs+xml
application/vnd.criticaltools.wbs+xmlwbs
application/vnd.ctc-posmlm1
# application/vnd.ctct.ws+xml
# application/vnd.cups-pdf
# application/vnd.cups-postscript
application/vnd.cups-ppdppd
# application/vnd.cups-raster
# application/vnd.cups-raw
# application/vnd.curl
application/vnd.curl.carccar
application/vnd.curl.pcurlpcurl
# application/vnd.cyan.dean.root+xml
# application/vnd.cybank
application/vnd.dartdart
application/vnd.data-vision.rdzrdz
# application/vnd.debian.binary-package
application/vnd.dece.datauvf uvf uvf uvv uvv
application/vnd.dece.datauvf uvf uvf uvv
application/vnd.dece.unspecifieduvx uvv
application/vnd.dece.unspecifieduvx uvv
application/vnd.dece.zipuvz uvvz
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application/vnd.dece.unspecifieduvx uvv
# application/vnd.desmume.movie
# application/vnd.dir-bi.plate-dl-nosuffix
# application/vnd.dm.delegation+xml
application/vnd.dna
dna
# application/vnd.dolby.mlp
application/vnd.dolby.mlp
# application/vnd.dolby.mobile.1
application/vnd.dolby.mobile.1
# application/vnd.dolby.mobile.2
application/vnd.eszigno3+xml
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+xml
# application/vnd.etsi.asic-s+xml
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
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# application/vnd.etsi.timestamp-token+xml
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# application/vnd.fastcopy-disk-image+xml
application/vnd.fdf
application/vnd.fdsn.mseed+xml
application/vnd.fdsn.seed+xml
# application/vnd.ffsns
# application/vnd.filmit.zfc
# application/vnd.fints
# application/vnd.firemonkeys.cloudcell
application/vnd.flographit
application/vnd.fluxtime.clip+xml
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application/vnd.framemaker.fm
application/vnd.framemaker.fm-frame-maker-book
application/vnd.fugans.fnc
application/vnd.fugans.ltf
application/vnd.fsc.weblaunchfsc
application/vnd.fujitsu.oasysfsc
application/vnd.fujitsu.oasys2o2a2
application/vnd.fujitsu.oasys3o3a3
application/vnd.fujitsu.oasysgpf5
application/vnd.fujitsu.oasysrsbh2
# application/vnd.fujixerox.art-ex
# application/vnd.fujixerox.art4
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application/vnd.fujixerox.docuworks.binderbd
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application/vnd.fuzzysheetfzs
application/vnd.genomatix.tuxedotxd
# application/vnd.geo+json
# application/vnd.geocube+xml
application/vnd.geobebra.fileggb
application/vnd.geobebra.toolggt
application/vnd.geometry-explorer grex
application/vnd.geonextgxt
application/vnd.geoplango2w
application/vnd.geospaceg3w
# application/vnd.gerber
# application/vnd.globalplatform.card-content-mgt
# application/vnd.globalplatform.card-content-mgt-response
application/vnd.gmxgmx
application/vnd.google-earth.kml+xmlkml
application/vnd.google-earth.kmzkmz
# application/vnd.gov.sk.e-form+xml
# application/vnd.gov.sk.e-form+zip
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# application/vnd.hdt
# application/vnd.heroku+json
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# application/vnd.ms-windows.printerpairing
# application/vnd.ms-windows.wsd.oob
# application/vnd.ms-wmdrm.lic-chlg-req
# application/vnd.ms-wmdrm.lic-resp
# application/vnd.ms-wmdrm.meter-chlg-req
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application/vnd.ms-xpsdocumentxps
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application/vnd.musicianmus
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# application/vnd.ncd.reference
# application/vnd.nervana
# application/vnd.netfpx
application/vnd.neurolanguage.nlunlu
# application/vnd.nintendo.nitro.rom
# application/vnd.nintendo.snes.rom
application/vnd.nitf ntfl
application/vnd.nitfntf nift
application/vnd.noblenet-directoryvnnd
application/vnd.noblenet-sealerlns
application/vnd.noblenet-webnww
# application/vnd.nokia.catalgs
# application/vnd.oipf.pae.gem
# application/vnd.oipf.spdiscovery+xml
# application/vnd.oipf.spdlist+xml
# application/vnd.oipf.ueprofile+xml
# application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugar
# application/vnd.oma-scws-config
# application/vnd.oma-scws-http-request
# application/vnd.oma-scws-http-response
# application/vnd.oma.bcast.associated-procedure-parameter+xml
# application/vnd.oma.bcast.drm-trigger+xml
# application/vnd.oma.bcast.imd+xml
# application/vnd.oma.bcast.ltkm
# application/vnd.oma.bcast.notification+xml
# application/vnd.oma.bcast.provisioningtrigger
# application/vnd.oma.bcast.sgboot
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# application/vnd.oma.bcast.sgdud
# application/vnd.oma.bcast.simple-symbol-container
# application/vnd.oma.bcast.smartcard-trigger+xml
# application/vnd.oma.bcast.sprov+xml
# application/vnd.oma.bcast.stkm
# application/vnd.oma.cab-address-book+xml
# application/vnd.oma.cab-feature-handler+xml
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# application/vnd.oma.cab-subs-invite+xml
# application/vnd.oma.cab-user-prefs+xml
# application/vnd.oma.dcd
# application/vnd.oma.dcdc
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# application/vnd.oma.dd2+xml
# application/vnd.oma.drm.risd+xml
# application/vnd.oma.group-usage-list+xml
# application/vnd.oma.lwm2m+json
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# application/vnd.oma.poc.final-report+xml
# application/vnd.oma.poc.groups+xml
# application/vnd.oma.poc.invocation descriptor+xml
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# application/vnd.oma.push
# application/vnd.oma.scidm.messages+xml
# application/vnd.oma.xcap-directory+xml
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application/vnd.sailingtracker.track
# application/vnd.sbm.cid
# application/vnd.sbm.mid2
# application/vnd.scribus
# application/vnd.sealed.3df
# application/vnd.sealed.csf
# application/vnd.sealed.doc
# application/vnd.sealed.eml
# application/vnd.sealed.mht
# application/vnd.sealed.net
# application/vnd.sealed.ppt
# application/vnd.sealed.tiff
# application/vnd.sealed.xls
# application/vnd.sealedmedia.softseal.html
# application/vnd.sealedmedia.softseal.pdf
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/ServerHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/RequestScope.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/SessionScope.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/ModelAttribute.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/DeleteMapping.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/GetMapping.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/RequestScope.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/SessionScope.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/GetMapping.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/annotation/AnnotationMethodArgumentResolverAdapter.java
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 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/ClientHttpRequest.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/ConverterFeedHttpMessageConverter.java
 * /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/annotation/InitBinder.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/ConfigurableWebEnvironment.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/ContextualWebApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/ConfigurableWebApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/ContextualApplicationContext.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/context/support/ApplicationContext.java
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* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/http/server/reactive/ServletServerHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/support/SessionStatus.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/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/MethodArgumentNotValidException.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/bind/EscapedErrors.java
* /opt/ws_local/PERMITS_SQL/1068412474_1594388331.32/0/spring-web-5-2-5-release-sources-1-jar/org/springframework/web/util/pattern/WildcardTheRestPathElement.java
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 *
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*
* [The -showtree option pops up a Swing frame that shows
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*
* Contributing authors:
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*
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
* fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
* added tree construction
* fixed definition of WS, comments for mac, pc, unix newlines
* added unary plus
* Version 1.11 (Nov 20, 1998)
* Didn't have (stat)? for else clause in tree parser.
* Didn't gen ASTs for interface extends. Updated tree parser too.
* Updated to 2.6.0.
* Version 1.12 (Feb 2, 1999)
* Changed LITERAL_xxx to xxx in tree grammar.
* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
*
* Version 1.13 (Apr 23, 1999)
* Allowed final/abstract on local classes.
* Removed local interfaces from methods
* Put instanceof precedence where it belongs...in relationalExpr
* It also had expr not type as arg; fixed it.
* Missing ! on SEMI in classBlock
* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
fixed: didn't like Object[].class in parser or tree parser

Version 1.15 (Jun 26, 1999)
Screwed up rule with instanceof in it. :( Fixed.
Tree parser didn't like (expr).something; fixed.
Allowed multiple inheritance in tree grammar. oops.

Version 1.16 (August 22, 1999)
Extending an interface built a wacky tree: had extra EXTENDS.
Tree grammar didn't allow multiple superinterfaces.
Tree grammar didn't allow empty var initializer: {}

Version 1.17 (October 12, 1999)
ESC lexer rule allowed 399 max not 377 max.
java.tree.g didn't handle the expression of synchronized statements.

Version 1.18 (August 12, 2001)
Terence updated to Java 2 Version 1.3 by observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
- primary didn't include boolean.class kind of thing
- constructor calls parsed explicitly now:
  - see explicitConstructorInvocation
- add strictfp modifier
- missing objBlock after new expression in tree grammar
- merged local class definition alternatives, moved after declaration
- fixed problem with ClassName.super.field
- reordered some alternatives to make things more efficient
- long and double constants were not differentiated from int/float
- whitespace rule was inefficient: matched only one char
- add an examples directory with some nasty 1.3 cases
- made Main.java use buffered IO and a Reader for Unicode support
- supports UNICODE?
  - Using Unicode charVocabulary makes code file big, but only in the bitsets at the end. I need to make ANTLR generate unicode bitsets more efficiently.

Version 1.19 (April 25, 2002)
Terence added in nice fixes by John Pybus concerning floating constants and problems with super() calls. John did a nice reorg of the primary/postfix expression stuff to read better and makes f.g.super() parse properly (it was METHOD_CALL not a SUPER_CTOR_CALL). Also:
- "finally" clause was a root...made it a child of "try"
- Added stuff for asserts too for Java 1.4, but *commented out*
  as it is not backward compatible.

Version 1.20 (October 27, 2002)
Terence ended up reorging John Pybus' stuff to remove some nondeterminisms and some syntactic predicates.
* Note that the grammar is stricter now; e.g., this(...) must
  be the first statement.
*
* Trinary ?: operator wasn't working as array name:
  (isBig ? bigDigits : digits)[i];
*
* Checked parser/tree parser on source for
  resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
  and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
  * Fixed lots of problems including:
  * Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
  * He found a problem/fix with floating point that start with 0
  * Ray also fixed problem that (int.class) was not recognized.
  * Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
  * TJP fixed CHAR_LITERAL analogously.
*
  * Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
    * Notes:
      * We only allow the "extends" keyword and not the "implements"
        keyword, since that's what JSR14 seems to imply.
      * Thanks to Monty Zukowski for his help on the antlr-interest
        mail list.
      * Thanks to Alan Eliasen for testing the grammar over his
        Fink source base
*
* Version 1.22 (July, 2004)
  * Changes by Michael Studman to support Java 1.5 language extensions
    * Notes:
      * Added support for annotations types
      * Finished off Matt Quail's generics enhancements to support bound type arguments
      * Added support for new for statement syntax
      * Added support for static import syntax
      * Added support for enum types
      * Tested against JDK 1.5 source base and source base of jdigraph project
      * Thanks to Matt Quail for doing the hard part by doing most of the generics work
*
* Version 1.22.1 (July 28, 2004)
  * Bug/omission fixes for Java 1.5 language support
    * Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
      spotting this
    * Fixed bug where incorrect handling of SR and BSR tokens would cause type
      parameters to be recognised as type arguments.
    * Enabled type parameters on constructors, annotations on enum constants
      and package definitions
    * Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
* Version 1.22.2 (July 28, 2004)
  * Slight refactoring of Java 1.5 language support
  * o Refactored for/"foreach" productions so that original literal "for" literal
  * is still used but the for sub-clauses vary by token type
  * o Fixed bug where type parameter was not included in generic constructor's branch of AST

* Version 1.22.3 (August 26, 2004)
  * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
  * and other refactorings
  * o Fixed typeParameters omission in identPrimary and newStatement
  * o Replaced GT reconcilliation code with simple semantic predicate
  * o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
  * o Refactored typeDefinition production and field productions to reduce duplication

* Version 1.22.4 (October 21, 2004)
  * Small bug fixes
  * o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
  * o Added typeArguments to postfixExpression productions for anonymous inner class super
  * constructor invocation, e.g. new Outer().<String>super()
  * o Fixed bug in array declarations identified by Geoff Roy

* Version 1.22.4.g.1
  * o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
  * and have applied the groovy.diff from java.g (1.22) by John Rose
  * back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)

* Version 1.22.4.g.2
  * o mkempf, rkleeb, Dec 2007
  * o fixed various rules so that they call the correct Create Method
  * to make sure that the line information are correct

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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/ast/expr/MapExpression.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/vmplugin/v6/Java6.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/metaclass/MethodMetaProperty.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/ScriptReference.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/apache/groovy/internal/util/UnicodeConst.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayGetAtMetaMethod.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/transform/stc/ExtensionMethodNode.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/groovy/lang/IncorrectClosureArgumentsException.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/classgen/asm/BytecodeVariable.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/reflection/stdclasses/BooleanCachedClass.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/classgen/asm/BytecodeCodeVariable.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/control/InstanceOfVerifier.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMetaMethod.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/vmplugin/v5/PluginDefaultGroovyMethods.java
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* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/apache/groovy/util/concurrentlinkedhashmap/package-info.java
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/apache/groovy/util/concurrentlinkedhashmap/LinkedDeque.java

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/** Java 1.5 Recognizer
 * *
 * Run 'java Main [-showtree] directory-full-of-java-files'
 * *
 * [The -showtree option pops up a Swing frame that shows
 * the AST constructed from the parser.]
 * *
 * Run 'java Main <directory full of java files>'
 * *
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 * John Pybusjohn@pybus.org
 * *
 * Version 1.00 December 9, 1997 -- initial release
 * Version 1.01 December 10, 1997

Open Source Used In SVO 12.3.0 3690
*fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (partr)
*added tree construction
*fixed definition of WS,comments for mac,pc,unix newlines
*added unary plus
* Version 1.11 (Nov 20, 1998)
*Added "shutup" option to turn off last ambig warning.
*Fixed inner class def to allow named class defs as statements
*synchronized requires compound not simple statement
*add [ ] after builtInType DOT class in primaryExpression
*"const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
*Changed LITERAL_xxx to xxx in tree grammar.
*Updated java.g to use tokens {...} now for 2.6.0 (new feature).
*
* Version 1.13 (Apr 23, 1999)
*Didn't have (stat)? for else clause in tree parser.
*Didn't gen ASTs for interface extends. Updated tree parser too.
*Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
*Allowed final/abstract on local classes.
*Removed local interfaces from methods
*Put instanceof precedence where it belongs...in relationalExpr
*It also had expr not type as arg: fixed it.
*Missing ! on SEMI in classBlock
*fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
*fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
*Screwed up rule with instanceof in it. :( Fixed.
*Tree parser didn't like (expr).something; fixed.
*Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
*Extending an interface built a wacky tree: had extra EXTENDS.
*Tree grammar didn't allow multiple superinterfaces.
*Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
*ESC lexer rule allowed 399 max not 377 max.
*java.tree.g didn't handle the expression of synchronized
*statements.
* Version 1.18 (August 12, 2001)
* Terence updated to Java 2 Version 1.3 by
* observing/combining work of Allan Jacobs and Steve
* Messick. Handles 1.3 src. Summary:
* o primary didn't include boolean.class kind of thing
* o constructor calls parsed explicitly now:
* see explicitConstructorInvocation
* o add strictfp modifier
* o missing objBlock after new expression in tree grammar
* merging local class definition alternatives, moved after declaration
* fixed problem with ClassName.super.field
* reordered some alternatives to make things more efficient
* long and double constants were not differentiated from int/float
* whitespace rule was inefficient: matched only one char
* add an examples directory with some nasty 1.3 cases
* made Main.java use buffered IO and a Reader for Unicode support
* supports UNICODE?
  * Using Unicode charVocabulary makes code file big, but only
  * in the bitsets at the end. I need to make ANTLR generate
  * unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
* Terence added in nice fixes by John Pybus concerning floating
* constants and problems with super() calls. John did a nice
* reorg of the primary/postfix expression stuff to read better
* and makes f.g.super() parse properly (it was METHOD_CALL not
* a SUPER_CTOR_CALL). Also:
* 
* o "finally" clause was a root...made it a child of "try"
* o Added stuff for asserts too for Java 1.4, but *commented out*
  * as it is not backward compatible.
  *
* Version 1.20 (October 27, 2002)
  *
* Terence ended up reorging John Pybus' stuff to
* remove some nondeterminisms and some syntactic predicates.
* Note that the grammar is stricter now; e.g., this(...) must
  * be the first statement.
*
* Ternary ?: operator wasn't working as array name:
  * (isBig ? bigDigits : digits)[i];
 *
* Checked parser/tree parser on source for
  * Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
  * and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
* Fixed lots of problems including:
  * Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
  * He found a problem/fix with floating point that start with 0
  * Ray also fixed problem that (int.class) was not recognized.
  * Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
  * TJP fixed CHAR_LITERAL analogously.
  *
* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
* Notes:
  * o We only allow the "extends" keyword and not the "implements"
*keyword, since that's what JSR14 seems to imply.
* o Thanks to Monty Zukowski for his help on the antlr-interest
*mail list.
* o Thanks to Alan Eliasen for testing the grammar over his
+Fink source base
*
* Version 1.22 (July, 2004)
* Changes by Michael Studman to support Java 1.5 language extensions
* Notes:
* o Added support for annotations types
* o Finished off Matt Quail's generics enhancements to support bound type arguments
* o Added support for new for statement syntax
* o Added support for static import syntax
* o Added support for enum types
* o Tested against JDK 1.5 source base and source base of jdigraph project
* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
*
* Version 1.22.1 (July 28, 2004)
* Bug/omission fixes for Java 1.5 language support
* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
* spotting this
* o Fixed bug where incorrect handling of SR and BSR tokens would cause type
*parameters to be recognised as type arguments.
* o Enabled type parameters on constructors, annotations on enum constants
*and package definitions
* o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
*
* Version 1.22.2 (July 28, 2004)
* Slight refactoring of Java 1.5 language support
* o Refactored for/"foreach" productions so that original literal "for" literal
* is still used but the for sub-clauses vary by token type
* o Fixed bug where type parameter was not included in generic constructor's branch of AST
*
* Version 1.22.3 (August 26, 2004)
* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
* and other refactorings
* o Fixed typeParameters omission in identPrimary and newStatement
* o Replaced GT reconciliation code with simple semantic predicate
* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
* o Refactored typeDefinition production and field productions to reduce duplication
*
* Version 1.22.4 (October 21, 2004)
* Small bux fixes
* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
* o Added typeArguments to postfixExpression productions for anonymous inner class super
* constructor invocation, e.g. new Outer().<String>super()
* o Fixed bug in array declarations identified by Geoff Roy
* Version 1.22.4.j.1
* Changes by Jeremy Rayner to support java2groovy tool
  * I have taken java.g for Java1.5 from Michael Studman (1.22.4)
  * and have made some changes to enable use by java2groovy tool (Jan 2007)
* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /opt/cola/permits/1117959935_1608241707.15/0/groovy-2-5-14-sources-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java

1.352 mapstruct 1.2.0.Final

1.352.1 Available under license:

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

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1.354 activation-api 1.2.2

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

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1.355 rpm 4.14.1-r0.26

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1.357 springfox-spring-web 2.9.2
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1.358 zlib 1.2.3

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

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1.361 xorg-x11-font-utils 7.5 21.el7
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A. HISTORY OF THE SOFTWARE
=====================================

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

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

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

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

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1.366 cracklib 2.9.5-r0.12
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Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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Open Source Used In SVO 12.3.0 3786
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
=20

------------------------------------------------------------
Nathan Neulinger EM ail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>n=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using. thus LGPL-2.1 enters to fill this void.

Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> > the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
> >=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > 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.
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> > ---------- Forwarded message ----------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > 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

1.367 inotify-tools 3.14
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  jar/io/netty/channel/unix/DatagramSocketAddress.java
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1.379 python-dateutil 2.8.2

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper
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1.390 perl-pod-perldoc 3.20 4.el7

1.391 python 2.7.12-r1.12
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A. HISTORY OF THE SOFTWARE
============================

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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<td>2002</td>
<td>PSF</td>
<td>yes</td>
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<td>2.1.2</td>
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<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
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</tbody>
</table>

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2. enter into $BIRT_HOME/ReportEngine folder.
3. generate the report by run
   
   genReport xxx.rptdesign

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

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

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

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

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.405 curl 7.29.0-59.el7_9.1

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GnuTLS  http://www.gnutls.org/

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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

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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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1.423 atk 2.28.1 2.el7

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* /opt/cola/permits/1140120881_1614734504.61/0/spring-aop-5-2-4-release-sources-1-
  jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java

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include/GL/g1.h :
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include/GL/glxext.h
include/GL/wglxext.h :

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## DOM Level 3 Core Specification v1.0

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* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1-
jar/org/springframework/boot/autoconfigure/context/MessageSourceAutoConfiguration.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/web/SpringDataWebProperties.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/client/ClientsConfiguredCondition.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1-
jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerProperties.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnExpression.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/servlet/RequestMatcherProvider.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnMissingClass.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/client/ClientsConfiguredCondition.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/mongo/MongoDbFactoryDependentConfiguration.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1.jar/org/springframework/boot/autoconfigure/jdbc/JdbcTemplateConfiguration.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1.jar/org/springframework/boot/autoconfigure/jms/DefaultJmsListenerContainerFactoryConfigurer.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1.jar/org/springframework/boot/autoconfigure/groovy/template/GroovyTemplateAutoConfiguration.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1.jar/org/springframework/boot/autoconfigure/context/package-info.java
* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1.jar/org/springframework/boot/autoconfigure/context/MessageSourceProperties.java
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* /opt/cola/permits/1140681595_1614870549.04/0/spring-boot-autoconfigure-2-2-5-release-sources-1.jar/org/springframework/boot/autoconfigure/data/solr/SolrRepositoriesRegistrar.java
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1.434 jetty-servlet 8.1.14.v20131031

1.435 netty-handler-proxy 4.1.45.Final

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* /opt/ws_local/PERMITS_SQL/1068791745_1594429443.73/0/netty-handler-proxy-4-1-45-final-sources-
jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

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* /opt/ws_local/PERMITS_SQL/1068791745_1594429443.73/0/netty-handler-proxy-4-1-45-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/ws_local/PERMITS_SQL/1068791745_1594429443.73/0/netty-handler-proxy-4-1-45-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1068791745_1594429443.73/0/netty-handler-proxy-4-1-45-final-sources-jar/io/netty/handler/proxy/package-info.java
* /opt/ws_local/PERMITS_SQL/1068791745_1594429443.73/0/netty-handler-proxy-4-1-45-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
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* /opt/ws_local/PERMITS_SQL/1068791745_1594429443.73/0/netty-handler-proxy-4-1-45-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java

1.436 nspr 4.25.0-2.el7_9
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The specification of DOM Level 3’s various parts is at:
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

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

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

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

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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.

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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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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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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1.445 util-linux 2.23.2-65.el7_9.1

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1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M

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

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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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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
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* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/cache/jcache/interceptor/CachePutOperation.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/cache/jcache/interceptor/DefaultCacheKeyInvocationContext.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/cache/jcache/interceptor/BeanFactoryJCacheOperationSourceAdvisor.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/cache/jcache/interceptor/JCacheInterceptor.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/cache/jcache/interceptor/DefaultCacheOperationSource.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/cache/jcache/interceptor/SimpleExceptionCacheResolver.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/cache/jcache/JCacheManagerFactoryBean.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1.jar/org/springframework/cache/jcache/JCacheOperationSourcePointcut.java

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* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-jar/org/springframework/scheduling/quartz/SchedulerContextAware.java

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* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-jar/org/springframework/mail/MailAuthenticationException.java
  * /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java
  * /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
  * /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-jar/org/springframework/scheduling/commonj/DelegatingWork.java
  * /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-jar/org/springframework/scheduling/quartz/DelegatingJob.java
  * /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
  * /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-jar/org/springframework/mail/MailParseException.java

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* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
  jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
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  jar/org/springframework/mail/javamail/SmartMimeMessage.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
  jar/org/springframework/cache/transaction/TransactionAwareCacheManagerProxy.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
  jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
  jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
  jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
  jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java

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# Defaults for the Java Activation Framework (revised).
#
# Modified extensions registered in this file:
# text/plain java c c++ cpp pl cc h
# image/png png
# image/svg+xml svg
#
# text/html html HTML HTM
# text/plain TXT TEXT java c c++ cpp pl cc h
# image/gif GIF
# image/ief ief
# image/jpeg jpeg jpg jpe JPG
# image/tiff tif
# image/x-xwindowdump xwd
# application/postscriptai eps ps
# application/rff rff
# application/x-tex tex
# application/x-texinfo texinfo texi
# application/x-troff tr roff
# audio/basic au

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audio/midi																																																																																																																																													# Additional file types adapted from
# http://sites.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by Ian Graham.
#
# TEXT TYPES

text/x-speech				talk

text/css				css

text/csv				csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap				xbm
# X-Windows pixmap (8-bit color)
image/x-xpixmap				xpm
# Portable Network Graphics
image/png
# Scalable Vector Graphics
image/svg+xml
# Image Exchange Format (RFC 1314)
image/ief
# RGB
image/rgb
# Group III Fax (RFC 1494)
image/g3faxg3f
# X Windowdump format
image/x-xwindowdumpxwd
# Macintosh PICT format
image/x-pict
# PPM (UNIX PPM package)
image/x-portable-pixmapppm
# PGM (UNIX PPM package)
image/x-portable-graymappgm
# PBM (UNIX PPM package)
image/x-portable-bitmap
# PNM (UNIX PPM package)
image/x-portable-anymap
# Microsoft Windows bitmap
image/x-ms-bmp.bmp
# CMU raster
image/x-cmu-rasterras
# Kodak Photo-CD
image/x-photo-cdpcd
# Computer Graphics Metafile
cgmcgm
# CALS Type 1 or 2
cal
# Fractal Image Format (Iterated Systems)
fiff
# QuickSilver active image (Micrografx)
image/x-mgx-dsfdsf
# CMX vector image (Corel)
image/x-cmxcmx
# Wavelet-compressed (Summus)
image/waveletwi
# AutoCad Drawing (SoftSource)
vnd.dwg
# AutoCad DXF file (SoftSource)
vnd.dxf
# Simple Vector Format (SoftSource)
vnd.svsvf

# AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic"" audio - 8-bit u-law PCM"
audio/basicau snd
# Macintosh audio format (Apple)
audio/x-aiffaif aiff aifc
# Microsoft audio
audio/x-wawwav
# MPEG audio
audio/x-mpegmpa abs mpega
# MPEG-2 audio
audio/x-mpeg-2m2p2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeeches
# Toolvox speech audio (Voxware)
audio/voxwarevoxx
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudiora ram
# MIDI music data
x-music/x-midi

# Koan music data (SSeyo)
application/vnd.koan

# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpeg

# MPEG-2 video
video/mpeg-2

# Macintosh Quicktime
video/quicktime

# Microsoft video
video/x-msvideo

# SGI Movie format
video/x-sgi-movie

# VDOlive streaming video (VDOnet)
video/vdovdo

# Vivo streaming video (Vivo software)
video/vnd.vivovivo

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig

# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk

# TEXT-RELATED

# PostScript
application/postscript

# Microsoft Rich Text Format
application/rtf

# Adobe Acrobat PDF
application/pdf

# Maker Interchange Format (FrameMaker)
application/vnd.mif

# Troff document
application/x-troff

# 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-latexlatex
# Tex/LateX document
application/x-textex
# GNU TexInfo document
application/x-texinfo texi
# TeX dvi format
application/x-dvidvi
# MS word document
application/msword DOC
# Office Document Architecture
application/odaoda
# Envoy Document
application/envoyevy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtargtar
# 4.3BSD tar format
application/x-tartar
# POSIX tar format
application/x-ustarustar
# Old CPIO format
application/x-bcpio bcpio
# POSIX CPIO format
application/x-cpio cpio
# UNIX sh shell archive
application/x-sharshar
# DOS/PC - Pkzipped archive
application/zipzip
# Macintosh Binhexed archive
application/mac-binhex40hqx
# 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
text/js
text/mocha

# UNIX bourne shell program
application/x-sh

# UNIX c-shell program
application/x-csh

# Perl program
application/x-perl

# Tcl (Tool Control Language) program
application/x-tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash

# mBED multimedia data (mBED)
application/mbedlet

# PowerMedia multimedia (RadMedia)
application/x-rad-powermedia

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint

# ASAP WordPower (Software Publishing Corp.)
application/x-asap

# Astound Web Player multimedia data (GoldDisk)
application/astound

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescript

# OLE Object (Microsoft/NCompass)
application/x-oleobject

# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscape

# Visual Basic objects (Amara)
application/x-webbasic

# Specialized data entry forms (Alpha Software)
application/x-alpha-form

# client-server objects (Wayfarer Communications)
x-script/x-wfxclient

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlvrml vrml
# WIRL - VRML data (VREAM)
x-world/x-vreamvrm
# 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-wvrwvr
# 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-dwfddf

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jar/org/springframework/messaging/interceptor/MessageInterceptorUtils.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessageListenerContainerFactoryBean.java
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jar/org/springframework/messaging/interceptor/MessageListenerContainer.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessageListenerContainerTemplate.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessageListenerContainerUtils.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessageProducer.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessagePublisher.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessagePublisherTemplate.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessagePublisherUtils.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessageQueue.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessageQueueFactoryBean.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/messaging/interceptor/MessageQueueUtils.java
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jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveOperation.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveEntryInterceptor.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/cache/jcache/JCacheCache.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/cache/caffeine/CaffeineCache.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/cache/caffeine/EhCacheCache.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /opt/cola/permits/1140120782_1614734506.49/0/spring-context-support-5-2-4-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/AbstractCacheInterceptor.java

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1.450 ffmpeg 3.1.3

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- optional x86 optimization in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/t2h.pm`
  - `doc/text2pod.pl`
  - `libswresample/swresample-test.c`
  - `tests/checkasm/**`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
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  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
`vf_fspp.c`
`vf_geq.c`
`vf_histeq.c`
`vf_hqdn3d.c`
`vf_interlace.c`
`vf_kerndeint.c`
`vf_mpdecimate.c`
`vf_owdenoise.c`
`vf_phase.c`
`vf_pp.c`
`vf_pp7.c`
`vf_pullup.c`
`vf_repeatfields.c`
`vf_sab.c`
`vf_smartblur.c`
`vf_spp.c`
`vf_stereo3d.c`
`vf_super2xsai.c`
`vf_tinterlace.c`
`vf_uspp.c`
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There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

### External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

#### Compatible libraries

The following libraries are under GPL:
- frei0r
- libcdio
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

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That's all there is to it!
I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Blrhmann, for helping me get started on the 64-bit multi-precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired and contributed to many of the changes for version 3.0.0. He also provided the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

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- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information, reported bugs, provided feedback, or works on including BeeCrypt in any other distros.

If I've missed anyone, it's due to oversight. Drop me a line and I'll rectify the situation as quickly as possible.

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**1.455 python-setuptools 39.2.0 10.el7**

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1.456 jackson 2.10.3

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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, whether or not they are linked directly with the Library itself.

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

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

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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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That's all there is to it!

1.461 vim 8.0.0022-r0.13

1.462 python 2.7.17-5.ph3
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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1.465 groovy-macro 2.5.9

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* /opt/cola/permits/1194549304_1629467271.82/0/groovy-macro-2-5-9-sources-1-
jar/org/codehaus/groovy/macro/matcher/ASTMatcher.groovy
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* /opt/cola/permits/1194549304_1629467271.82/0/groovy-macro-2-5-9-sources-1-jar/org/codehaus/groovy/macro/matcher/ASTFinder.java
* /opt/cola/permits/1194549304_1629467271.82/0/groovy-macro-2-5-9-sources-1-jar/org/codehaus/groovy/macro/matcher/ASTNodePredicate.java

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#global transformation for macro support
org.codehaus.groovy.macro.transform.MacroTransformation
org.codehaus.groovy.macro.transform.MacroClassTransformation

Found in path(s):
* /opt/cola/permits/1194549304_1629467271.82/0/groovy-macro-2-5-9-sources-1-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation

1.466 rsync 3.1.2
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1.467 mock 2.0.0

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1.468 perl-scalar-list-utils 1.27 248.el7

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1.469 tcl 8.6.6

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1.472 bash 4.2.46 34.el7

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libfreedreno_layout = static_library(
    'freedreno_layout',
    [‘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 : [c_vis_args, no_override_init_args],
    cpp_args : [cpp_vis_args],
    dependencies : idep_nir_headers,
    build_by_default : false,
)

test(
    'fd6_layout',
    executable(
        'fd6_layout',
        [‘fd6_layout_test.c’,
         freedreno_xml_header_files,
        ],
        link_with: libfreedreno_layout,
        dependencies : idep_mesautil,
        include_directories: [
            inc_include,
            inc_src,
            inc_mapi,
            inc_mesa,
            inc_gallium,
            inc_gallium_aux,
            inc_freedreno,
        ],
        suite : ['freedreno'],
    )
)
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1.479 sed 4.2.2-7.el7
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  jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/110642580_1606841489_26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/110642580_1606841489_26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/util/concurrent/AbstractTransformFuture.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/base/VerifyException.java

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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/hash/LongAdder.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.
* 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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 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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  jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/graph/MutableValueGraph.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
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jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
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jar/com/google/common/collection/ImmutableMapValues.java
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jar/com/google/common/collection/ImmutableMap.java
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jar/com/google/common/collection/SingletonImmutableBiMap.java
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   jar/com/google/common/util/concurrent/AggregateFutureState.java
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   jar/com/google/common/util/concurrent/Platform.java
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   jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
   jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
   jar/com/google/common/hash/FarmHashFingerprint64.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collection/MultimapBuilder.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collection/ImmutableMapEntry.java

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jar/com/google/common/util/concurrent/Internal.java
*/
/opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/primitives/Platform.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>
*/

Found in path(s):
*/
/opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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  jar/com/google/common/collection/LinkedListMultimap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/ForwardingConcurrentMap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/ForwardingMultiset.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/ForwardingList.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/NullsFirstOrdering.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/Iterators.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/package-info.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/SetMultimap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/Multiset.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/Ordering.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/ForwardingListIterator.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/AbstractBiMap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/AbstractMultiset.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/Map.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/Lists.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/collection/AbstractIterator.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4.jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4.jar/com/google/common/collection/ForwardingIterator.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4.jar/com/google/common/collection/AbstractMapBasedMultimap.java
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 * /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collect/RegularImmutableAsList.java
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jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collect/DescendingImmutableSortedSet.java
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jar/com/google/common/collect/DescendingMultiset.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collect/TransformedListIterator.java
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jar/com/google/common/collect/TreeRangeMap.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/primitives/ImmutableIntArray.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/hash/BloomFilterStrategies.java
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jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/cache/package-info.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
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* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
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jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/base/Optional.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/hash/Murmur3_32HashFunction.java
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jar/com/google/common/math/package-info.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/io/LineBuffer.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/base/Charsets.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/base/FinalizableWeakReference.java
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  jar/com/google/common/hash/package-info.java
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  jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/base/Converter.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
  jar/com/google/common/net/PercentEscaper.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/AbstractService.java
Found in path(s):
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/graph/BaseGraph.java
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jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collection/JdkBackedImmutableSet.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-
jar/com/google/common/collection/JdkBackedImmutableMultiset.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collect/SortedMultisets.java

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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/math/StatsAccumulator.java
Raw text: * /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collection/FilteredKeyMultimap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collection/ImmutableRangeSet.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/reflect/package-info.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/hash/SipHashFunction.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/reflect/TypeToInstanceMap.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/math/LinearTransformation.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/collection/CartesianList.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/reflect/TypeCapture.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/base/Strings.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>TODO(kevinb): support concurrently modified collections?
* @param c the collection for which to return an array of elements
*/

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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/graph/MutableNetwork.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/graph/Network.java
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* /opt/cola/permits/1110642580_1606841489.26/0/guava-28-2-jre-sources-4-jar/com/google/common/util/concurrent/ListenerCallQueue.java
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1.486 lxc 2.0.4

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BSON library for Go

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mgo - MongoDB driver for Go

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PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
Header: `This program is free software: you can redistribute it and/or modify
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uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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//
// Licensed under the Apache License, Version 2.0 (the "License");
package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `
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model, to give anyone who possesses the object code either (1) a
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only if you received the object code with such an offer, in accord
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d) Convey the object code by offering access from a designated
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copy the object code is a network server, the Corresponding Source
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clear directions next to the object code saying where to find the
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e) Convey the object code using peer-to-peer transmission, provided
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`,

package cmd

func initAgpl() {
    Licenses["agpl"] = License{
        Name: "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

Open Source Used In SVO 12.3.0 4732`
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package cmd
import (
    "strings"
    "time"
    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {

return License{Header: viper.GetString("license.header"),
Text: viper.GetString("license.text")}
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]

func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        er("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}
return ""
}
}

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func initGpl2() {
    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal
var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd", "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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*/

package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}
tomb - support for clean goroutine termination in Go.

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func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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1.488 patch 2.7.5

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* /opt/cola/permits/1232907033_1637863763.25/0/awaitility/core/TimeoutEvent.java
* /opt/cola/permits/1232907033_1637863763.25/0/awaitility-4-1-0-sources-jar/org/awaitility/core/StartEvaluationEvent.java
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* /opt/cola/permits/1232907033_1637863763.25/0/awaitility-4-1-0-sources-jar/org/awaitility/Durations.java
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* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/lang/MetaClassImpl.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/tools/RootLoader.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/util/NodePrinter.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/apache/groovy/util/SystemUtil.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/classgen/asm/WriterControllerFactory.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/ast/expr/MethodCall.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/runtime/memoize/Memoize.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/transform/Sortable.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/classgen/asm/BytecodeVariable.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/util/ObservableSet.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/lang/Interceptor.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/lang/ObjectRange.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/reflection/stdlibclasses/BooleanCachedClass.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/ast/Parameter.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/runtime/FlushingStreamWriter.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/antlr/EnumHelper.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/tools/javac/JavaStubCompilationUnit.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/control/messages/SimpleMessage.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/lang/EventListener.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/util/CharsetToolkit.java

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Open Source Used In SVO 12.3.0 4981
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/transform/sc/StaticCompilationVisitor.java
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/ast/decompiled/ClassSignatureParser.java
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/tools/shell/util/MessageSource.java
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayGetAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/transform/EqualsAndHashCode.java
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayGetAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/runtime/io/StringReaderSource.java
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/runtime/io/StringReaderSource.java
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/runtime/memoize/NullProtectionStorage.java
* /opt/ws_local/PERMITS_SQL/109360141_1601049781.55/0/groovy-2-5-9-sources-1.jar/groovy/lang/ProxyMetaClass.java
/* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/runtime/callsite/MetaMethodSite.java */
/* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/ObjectCachedClass.java */
/* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/util/TripleKeyHashMap.java */
/* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/runtime/expr/CastExpression.java */
/* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/tools/GrapeMain.groovy */
/* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/transform/FieldASTTransformation.java */
/* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/transform/AnnotationCollector.java */
/* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/transform/ExternalizeMethods.java */

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

/** JSR-241 Groovy Recognizer. */
*  
* Run 'java Main [-showtree] directory-full-of-groovy-files'
*  
* [The -showtree option pops up a Swing frame that shows
*  the AST constructed from the parser.]
*  
* Contributing authors:
*  
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* Rebo Kleeb rkleebo@hsr.ch
*  
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
*  fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (partr)
* added tree construction
* fixed definition of WS, comments for mac, pc, unix newlines
* added unary plus
* Version 1.11 (Nov 20, 1998)
  * Added "shutup" option to turn off last ambig warning.
  * Fixed inner class def to allow named class defs as statements
  * synchronized requires compound not simple statement
  * add [] after builtInType DOT class in primaryExpression
  * "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
  * Changed LITERAL_xxx to xxx in tree grammar.
  * Updated java.g to use tokens {...} now for 2.6.0 (new feature).
* Version 1.13 (Apr 23, 1999)
  * Didn't have (stat)? for else clause in tree parser.
  * Didn't gen ASTs for interface extends. Updated tree parser too.
  * Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
  * Allowed final/abstract on local classes.
  * Removed local interfaces from methods
  * Put instanceof precedence where it belongs...in relationalExpr
  * It also had expr not type as arg; fixed it.
  * Missing ! on SEMI in classBlock
  * fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
  * fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
  * Screwed up rule with instanceof in it. :( Fixed.
  * Tree parser didn't like (expr).something; fixed.
  * Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
  * Extending an interface built a wacky tree: had extra EXTENDS.
  * Tree grammar didn't allow multiple superinterfaces.
  * Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
  * ESC lexer rule allowed 399 max not 377 max.
  * java.tree.g didn't handle the expression of synchronized statements.
* Version 1.18 (August 12, 2001)
  * Terence updated to Java 2 Version 1.3 by
    observing/combining work of Allan Jacobs and Steve
  * Messick. Handles 1.3 src. Summary:
  * o primary didn't include boolean.class kind of thing
  * o constructor calls parsed explicitly now:
    see explicitConstructorInvocation
  * o add strictfp modifier
  * o missing objBlock after new expression in tree grammar
  * o merged local class definition alternatives, moved after declaration
  * o fixed problem with ClassName.super.field
* reordered some alternatives to make things more efficient
* long and double constants were not differentiated from int/float
* whitespace rule was inefficient: matched only one char
* add an examples directory with some nasty 1.3 cases
* made Main.java use buffered IO and a Reader for Unicode support
* supports UNICODE?
* Using Unicode charVocabulary makes code file big, but only
  in the bitsets at the end. I need to make ANTLR generate
  unicode bitsets more efficiently.

* Version 1.19 (April 25, 2002)
* Terence added in nice fixes by John Pybus concerning floating
  constants and problems with super() calls. John did a nice
  reorg of the primary/postfix expression stuff to read better
  and makes f.g.super() parse properly (it was METHOD_CALL not
  a SUPER_CTOR_CALL). Also:
  *
  * "finally" clause was a root...made it a child of "try"
  * Added stuff for asserts too for Java 1.4, but *commented out*
    as it is not backward compatible.

* Version 1.20 (October 27, 2002)
*
* Terence ended up reorging John Pybus' stuff to
* remove some nondeterminisms and some syntactic predicates.
* Note that the grammar is stricter now; e.g., this(...) must
  be the first statement.
*
* Trinary ?: operator wasn't working as array name:
  *
  * (isBig ? bigDigits : digits)[i];
*
* Checked parser/tree parser on source for
* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
* and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
* Fixed lots of problems including:
* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
* He found a problem/fix with floating point that start with 0
* Ray also fixed problem that (int.class) was not recognized.
* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
* TJP fixed CHAR_LITERAL analogously.
*
* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
* Notes:
  * We only allow the "extends" keyword and not the "implements"
    keyword, since that's what JSR14 seems to imply.
  * Thanks to Monty Zukowski for his help on the antlr-interest
* mail list.
  * o Thanks to Alan Eliasen for testing the grammar over his
    Fink source base
  *
* Version 1.22 (July, 2004)
  * Changes by Michael Studman to support Java 1.5 language extensions
  * Notes:
    * o Added support for annotations types
    * o Finished off Matt Quail's generics enhancements to support bound type arguments
    * o Added support for new for statement syntax
    * o Added support for static import syntax
    * o Added support for enum types
    * o Tested against JDK 1.5 source base and source base of jdigraph project
    * o Thanks to Matt Quail for doing the hard part by doing most of the generics work
  *
* Version 1.22.1 (July 28, 2004)
  * Bug/omission fixes for Java 1.5 language support
    * o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
    * o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
    * o Enabled type parameters on constructors, annotations on enum constants and package definitions
    * o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
  *
* Version 1.22.2 (July 28, 2004)
  * Slight refactoring of Java 1.5 language support
    * o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
    * o Fixed bug where type parameter was not included in generic constructor's branch of AST
  *
* Version 1.22.3 (August 26, 2004)
  * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces and other refactoring
    * o Fixed typeParameters omission in identPrimary and newStatement
    * o Replaced GT reconciliation code with simple semantic predicate
    * o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
    * o Refactored typeDefinition production and field productions to reduce duplication
  *
* Version 1.22.4 (October 21, 2004)
  * Small bux fixes
    * o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
    * o Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
    * o Fixed bug in array declarations identified by Geoff Roy
  *
* Version 1.22.4.g.1
  * o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
and have applied the groovy.diff from java.g (1.22) by John Rose back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)

* Version 1.22.4.g.2
  * o mkempf, rklee, Dec 2007
  * o fixed various rules so that they call the correct Create Method
to make sure that the line information are correct

* Based on an original grammar released in the PUBLIC DOMAIN

*/

Found in path(s):  
*/opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java
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#
# Format: one extension on each line without the leading ",*."
# Listed below are default groovy source file extensions.

# NOTE: This implementation of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

Found in path(s):  
*/opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1.jarMETA-INF/groovy/org.codehaus.groovy.source.Extensions
No license file was found, but licenses were detected in source scan.

/** Java 1.5 Recognizer
 *  
 * Run 'java Main [-showtree] directory-full-of-java-files'
* [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.]
* 
* Run 'java Main <directory full of java files>'
* 
* Contributing authors:
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*   John Lilleyjlilley@empathy.com
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*   Markus Mohnenmohnen@informatik.rwth-aachen.de
*   Peter Williamspete.williams@sun.com
*   Allan JacobsAllan.Jacobs@eng.sun.com
*   Steve Messickmessick@redhills.com
*   John Pybusjohn@pybus.org
* 
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
*fixed bug in octal def (0..7 not 0..8)
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*fixed definition of WS,comments for mac,pc,unix newlines
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* o made Main.java use buffered IO and a Reader for Unicode support
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*
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* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
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* o Thanks to Alan Eliasen for testing the grammar over his
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  *
* Version 1.22 (July, 2004)
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  * o Finished off Matt Quail's generics enhancements to support bound type arguments
  * o Added support for new for statement syntax
  * o Added support for static import syntax
  * o Added support for enum types
  * o Tested against JDK 1.5 source base and source base of jdigraph project
  * o Thanks to Matt Quail for doing the hard part by doing most of the generics work
  *
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* Bug/omission fixes for Java 1.5 language support
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  * o Fixed problems when parsing if ((char.class.equals(c)) { - solution by Matt Quail at Cenqua
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* Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
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  * Replaced GT reconciliation code with simple semantic predicate
  * Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
  * Refactored typeDefinition production and field productions to reduce duplication

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    * Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
    * Added typeArguments to postfixExpression productions for anonymous inner class super
    * constructor invocation, e.g. new Outer().<String>super()
    * Fixed bug in array declarations identified by Geoff Roy

* Version 1.22.4.j.1
  * Changes by Jeremy Rayner to support java2groovy tool
    * I have taken java.g for Java1.5 from Michael Studman (1.22.4)
    * and have made some changes to enable use by java2groovy tool (Jan 2007)

* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1.jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java
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*
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/transform/AutoImplement.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/ast/tools/ClassNodeUtils.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/ast/tools/ParameterUtils.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/transform/AnnotationCollectorMode.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/transform/ErrorCollecting.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/lang/NumberRange.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/codehaus/groovy/transform/AutoImplementASTTransformation.java

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* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/groovy/inspect/package.html
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# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
# Global transformation for AST Builder

org.codehaus.groovy.ast.builder.AstBuilderTransformation

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation

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* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/apache/groovy/util/concurrentlinkedhashmap/EvictionListener.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/apache/groovy/util/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-jar/org/apache/groovy/util/concurrentlinkedhashmap/Weighers.java

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  jar/org/apache/groovy/util/concurrentlinkedhashmap/EntryWeigher.java
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* /opt/ws_local/PERMITS_SQL/1093960141_1601049781.55/0/groovy-2-5-9-sources-1-
  jar/org/codehaus/groovy/runtime/GStringImpl.java

1.498 gdbm 1.12

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
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1.501 x-net

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1.502 libxi 1.1.3 2.1.el7

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1.504 grub 0.97

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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

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

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

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

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

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

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

* brandon-rhodes <http://rhodesmill.org/brandon>
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* studer <theo.studer@gmail.com>
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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@ibofo.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

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

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

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

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

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

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

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

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

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

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts
* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

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

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

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

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

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

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

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

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

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

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

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

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

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

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.
* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

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

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

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

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

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

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

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

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

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

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

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

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

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

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.
* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

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

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

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

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

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

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

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

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

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

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

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

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

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

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
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 Library General Public License, applies to some
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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

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

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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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.)

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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.

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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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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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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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 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.

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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.

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

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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.

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.

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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
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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.

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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.

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1.515 httpcomponents-client 4.5.6

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[PCRE]

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

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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---------------------------------------------------------------------------
[zlib]

/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005

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Jean-loup Gailly    Mark Adler
jloup@gzip.org     madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

---------------------------------------------------------------------------
[dialyzer]

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[hipe]

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[edoc, syntax_tools]

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[eldap]

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.
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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/(\$*)\.(\d)/\1.o $@ : /g' > $@; "
\ [-s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< | sed 's/(\$*)\.(\d)/\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_MAJOR) $@

## End FreeBSD-specific setup

1.520 json-c 0.11-4.el7_0
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  jar/org/springframework/web/filter/HiddenHttpMethodFilter.java
* /opt/cola/permits/1140120899_1614734525.51/0/spring-web-5-2-4-release-sources-1-
  jar/org/springframework/http/server/reactive/JettyHeadersAdapter.java
* /opt/cola/permits/1140120899_1614734525.51/0/spring-web-5-2-4-release-sources-1-
  jar/org/springframework/http/converter/GenericHttpMessageConverter.java
* /opt/cola/permits/1140120899_1614734525.51/0/spring-web-5-2-4-release-sources-1-
  jar/org/springframework/http/codec/protobuf/ProtobufCodecSupport.java
* /opt/cola/permits/1140120899_1614734525.51/0/spring-web-5-2-4-release-sources-1-
  jar/org/springframework/remoting/httpinvoker/HttpComponentsHttpInvokerRequestExecutor.java
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  jar/org/springframework/web/server/handler/FilteringWebHandler.java
* /opt/cola/permits/1140120899_1614734525.51/0/spring-web-5-2-4-release-sources-1-
  jar/org/springframework/web/util/cookie/CookieGenerator.java
* /opt/cola/permits/1140120899_1614734525.51/0/spring-web-5-2-4-release-sources-1-
  jar/org/springframework/http/ClientHttpRequestBuilder.java
* /opt/cola/permits/1140120899_1614734525.51/0/spring-web-5-2-4-release-sources-1-
  jar/org/springframework/http/client/reactive/ClientHttpConnector.java
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  jar/org/springframework/http/client/reactive/ClientHttpConnector.java
No license file was found, but licenses were detected in source scan.

# 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/applixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
application/atomdeleted+xml
application/atomicmail
application/atomssvc+xml
application/atxml
application/auth-policy+xml
application/bacnet-xdd+zip
application/batch-smtp
application/beep+xml
application/calendar+json
application/calendar+xml
application/call-completion
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application/cbor
application/ccmp+xml
application/ccxml+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/cnrp+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/dca-rft
application/dcd
application/dec-dx
application/resource-lists-diff+xml
application/rfc+xml
# application/rncos
# application/rlmi+xml
application/rls-services+xml
application/rpki-ghostbusters+xml
application/rpki-manifest+xml
application/rpki-roa+xml
# application/rpki-updown
application/rsd+xml
application/rss+xml
application/rtf
# application/rtptloopback
# application/rtx
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# application/samlmetadata+xml
application/shml+xml
# application/scaip+xml
# application/scim+json
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# application/slate
application/sdp
# application/sep+xml
# application/sep-exi
# application/session-info
# application/set-payment
application/set-payment-initiation+xml
# application/set-registration
application/set-registration-initiation+xml
# application/sgml
# application/sgml-open-catalog
application/shf+xml
# application/sieve
# application/smile/xml
# application/smpet336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirits-event+xml
# application/sql
# application/vnd.bluetooth.le.oob
application/vnd.bmibmi
application/vnd.businessobjectsrep
# application/vnd.cab-jscript
# application/vnd.canon-cpdl
# application/vnd.canon-lips
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car application/vnd.curl.pcurl
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application/x-csh
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Open Source Used In SVO 12.3.0 5330

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* Return the web session for the current request. Always guaranteed to
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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
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/*---------------------------------------------------------------------------

wpng - simple PNG-writing program                      writepng.c

---------------------------------------------------------------------------*/

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1.541 springfox-schema 2.9.2

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  jar/springfox/documentation/schema/ModelReferenceProvider.java
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/ObjectMapperBeanPropertyNamingStrategy.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/ModelNameContext.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultGenericTypeNamingStrategy.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/FactoryMethodProvider.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/Annotations.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/configuration/ModelsConfiguration.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/bean/Accessors.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/field/FieldModelProperty.java
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/plugins/XmlModelPlugin.java
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java
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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/JaxbPresentInClassPathCondition.java
1.542 hikaricp 2.3.13

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* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/IConnectionCustomizer.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/pool/HikariMBeanElf.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/pool/HikariPoolMXBean.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/proxy/CallableStatementProxy.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/proxy/ConnectionProxy.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/proxy/PreparedStatementProxy.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/proxy/PreparedStatementProxy.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/proxy/StatementProxy.java
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  jar/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikarip-2-3-13-sources-3-
  jar/com/zaxxer/hikari/util/ClassLoaderUtils.java
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  jar/com/zaxxer/hikari/util/IBagStateListener.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikarip-2-3-13-sources-3-
  jar/com/zaxxer/hikari/util/DriverDataSource.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikarip-2-3-13-sources-3-
  jar/com/zaxxer/hikari/proxy/IHikariConnectionProxy.java
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  jar/com/zaxxer/hikari/util/DefaultThreadFactory.java
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  jar/com/zaxxer/hikari/pool/LeakTask.java
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  jar/com/zaxxer/hikari/proxy/ConnectionProxy.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikarip-2-3-13-sources-3-
  jar/com/zaxxer/hikari/HikariConfig.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikarip-2-3-13-sources-3-
  jar/com/zaxxer/hikari/AbstractHikariConfig.java
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  jar/com/zaxxer/hikari/proxy/ResultSetProxy.java
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  jar/com/zaxxer/hikari/pool/GlobalPoolLock.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikarip-2-3-13-sources-3-
  jar/com/zaxxer/hikari/proxy/ProxyFactory.java
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  jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikarip-2-3-13-sources-3-
jar/com/zaxxer/hikari/util/Java8ConcurrentBag.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/util/ConcurrentBag.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/util/FastList.java
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* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/HikariJNDIFactory.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/pool/BaseHikariPool.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/metrics/CodaHaleMetricsTracker.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/metrics/MetricsTracker.java
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jar/com/zaxxer/hikari/util/IConcurrentBagEntry.java
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jar/com/zaxxer/hikari/metrics/CodahaleHealthChecker.java

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  jar/com/lmax/disruptor/DataProvider.java
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  jar/com/lmax/disruptor/FixedSequenceGroup.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/SequenceGroups.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/InsufficientCapacityException.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-jar/com/lmax/disruptor/Cursored.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-jar/com/lmax/disruptor/Sequencer.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-jar/com/lmax/disruptor/Sequence.java
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  jar/com/lmax/disruptor/EventTranslatorTwoArg.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/EventProcessor.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/IgnoreExceptionHandler.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/EventTranslator.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/collections/Histogram.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/EventFactory.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/EventHandler.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/BusySpinWaitStrategy.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/SequenceGroup.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/WorkerPool.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/util/DaemonThreadFactory.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/PhasedBackoffWaitStrategy.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/WorkProcessor.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/BatchEventProcessor.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
  jar/com/lmax/disruptor/ProcessingSequenceBarrier.java
* /opt/cola/permits/1110709814_1606844002.74/0/disruptor-3-2-0-sources-
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1.544 groovy-groovysh 2.5.9

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

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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.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
Macro Packages
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. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
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  tmac/e.tmac
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  doc/meref.me

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. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
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at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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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
`frhyph.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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### 1.547 docopt 0.6.2-3.ph4

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1.552 perl-socket 2.010 5.el7

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1.553 eclipse-core-jobs 3.6.0.v20140424-0053

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----------
BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.
BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.
BIRT Engine is a report engine which generates report from defined report and related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.
You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.
----------------------
You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console
----------------------------------
In order to run the BIRT engine in command you should:
1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign
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Found in path(s):
* /opt/cola/permits/1138400598_1614282163.08/0/org-eclipse-core-jobs-3-6-0-v20140424-0053-sources-3-jar/runtime_readme.txt

1.554 zeromq 4.1.5

1.554.1 Available under license :

  wepoll - epoll for Windows
  https://github.com/piscisaureus/wepoll

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1.558 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.559 python 3.7.6
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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1.562 libcap 219

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1.563 python-setuptools 39.2.0

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1.565 python-prettytable 0.7.2-7.ph4

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
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@enumerate a
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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.)
@end enumerate

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

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

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

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

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

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

@end subheading

@end page

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@example
[group
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@c ispell-local-pdict: "ispell-dict"
@c End:
1.573 junit-jupiter-engine 5.5.2

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
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* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/common/TemplateParserContext.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/MethodExecutor.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/ConstructorExecutor.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/MethodResolver.java
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* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/ws_local/PERMITS_SQL/1068412622_1594398889.89/0/spring-expression-5-2-5-release-sources-1-jar/org/springframework/expression/spel/SpelCompilerMode.java

1.580 netty-handler 4.1.45.Final
1.580.1 Available under license :

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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java

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  jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/logging/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/stream/ChunkedInput.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/stream/ChunkedStream.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/logging/LoggingHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/stream/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/stream/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/ReadTimeoutExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/WriteTimeoutExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/timeout/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/IdleStateEventHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/package-info.java
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/ssl/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/timeout/IdleState.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/logging/LogLevel.java

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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/traffic/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/JdkSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources-1-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ipfilter/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-jar/io/netty/handler/ssl/SslContextBuilder.java

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

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

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
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.

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*
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   usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/

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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/MethodMetadata.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/util/SimpleIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/annotation/AliasFor.java
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* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/SerializationDelegate.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/serializer/support/SerializingConverter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/serializer/DefaultSerializer.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/StringToCharsetConverter.java

* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/annotation/RepeatableContainers.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/ReactiveAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/type/classreading/SimpleAnnotationMetadata.java
* /opt/ws_local/PERMITS_SQL/1068412446_1594388588.58/0/spring-core-5-2-5-release-sources-1-jar/org/springframework/core/convert/support/StringToCharsetName

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 */
* @param mv
  * the <code>MethodVisitor</code> to send the resulting inlined
  * method code to (use <code>null</code> for none).
* @param access
  * the method's access flags (see { @link Opcodes }). This
  * parameter also indicates if the method is synthetic and/or
  * deprecated.
* @param name
  * the method's name.
* @param desc
  * the method's descriptor (see { @link Type }).
* @param signature
  * the method's signature. May be <tt>null</tt>.
* @param exceptions
  * the internal names of the method's exception classes (see
  * { @link Type#getName } getInternalName()). May be
  * <tt>null</tt>.
* @throws IllegalStateException
  * If a subclass calls this constructor.
*/

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* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/TypeReference.java
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 */

/**
 * Creates a new [GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 */
* @param mv
*     the method visitor to which this adapter delegates calls.
* @param access
*     the method's access flags (see [@link Opcodes]).
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

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 */
/**
 * Constructs a new {link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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*/
/**
* Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
* not use this constructor</i>. Instead, they must use the
* [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
* version.
*
* @param typeRef
* a reference to the annotated type. See [@link TypeReference].
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* null if the annotation targets 'typeRef' as a whole.
* @param start
  * the first instructions corresponding to the continuous ranges
  * that make the scope of this local variable (inclusive).
* @param end
  * the last instructions corresponding to the continuous ranges
  * that make the scope of this local variable (exclusive). This
  * array must have the same size as the 'start' array.
* @param index
  * the local variable's index in each range. This array must have
  * the same size as the 'start' array.
* @param desc
  * the class descriptor of the annotation class.
*/

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*/
/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this constructor</i>. Instead, they must use the
 * [{@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}] version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [{@link Opcodes}]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [{@link Type Type}]).
 * @param mv
 * the method visitor to which this adapter delegates calls. May be <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
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* /opt/cola/permits/1145063382_1631418106.09/0/asm-5-0-4-sources-8-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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jar/org/objectweb/asm/tree/InnerClassNode.java
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jar/org/objectweb/asm/commons/TableSwitchGenerator.java
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jar/org/objectweb/asm/tree/Interpreter.java
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jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
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jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
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* /opt/cola/permits/1140120836_1614734511.99/0/spring-beans-5-2-4-release-sources-1-jar/org/springframework/beans/factory/BeanInitializationException.java
* /opt/cola/permits/1140120836_1614734511.99/0/spring-beans-5-2-4-release-sources-1-jar/org/springframework/beans/propertyeditors/URLEditor.java
* /opt/cola/permits/1140120836_1614734511.99/0/spring-beans-5-2-4-release-sources-1-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
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Written by: Philip Hazel
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[zlib]

/* zlib.h -- interface of the `zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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Jean-loup Gailly  Mark Adler
jloup@gzip.org  madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

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[fp16]

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[dialyzer]

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Mailing Address: 4676 Admiralty Way, Suite 520
Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail: gordon.king@simulalabs.com
Fax: +1 800 822 0471

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Signature:

Name: Gordon King
Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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1.619 libxtst 1.2.3-r0.0

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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
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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

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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 detected during response rendering. Users can either specify a specific entry in the model via the `setSourceKey` property or have Spring locate the Source object. This class also provides basic conversion of objects into Source implementations. See `getSourceTypes()` for more details.

<p>All model parameters are passed to the XSLT Transformer as parameters. In addition the user can configure `setOutputProperties` to be passed to the Transformer.

<p>Authors: Rob Harrop, Juergen Hoeller

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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/SmartView.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/tags/form/RadioButtonsTag.java
* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java
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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java

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* /opt/ws_local/PERMITS_SQL/1068412523_1594396285.89/0/spring-webmvc-5-2-5-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceHttpRequestHandler.java
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jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
1.626 springfox-spi 2.9.2

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  * /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ApiSelector.java
  * /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/TypeNameProviderPlugin.java
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  jar/springfox/documentation/spi/schema/SyntheticModelProviderPlugin.java

1.627 gtk 2.24.30

1.628 protobuf 3.8.0

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

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

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

Okay, a few more questions:

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

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

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

Thanks again,

~tom

==
Fedora Project

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

Hi Tom,

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

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

Cheers,

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

Jorge,

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

The license says:

* 2. Redistributions in binary form must reproduce the following statement:

* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

* Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

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

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

OR

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

*****

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

Thanks in advance,

Tom Callaway
Fedora Legal

==
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1.638 curl 7.50.1-r0.12

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1.639 shared-mime-info 1.6

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* in C (faster - it is executed many times during system startup).
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1.648 velocity 1.6

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

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

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

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

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DOCUMENTATION ROADMAP
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This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.
If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

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

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

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapmed 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 "rdipgcom" and "wripgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.
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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

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

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

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


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

ARCHIVE LOCATIONS

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

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

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.
The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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RELATED SOFTWARE
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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

FILE FORMAT WARS
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)
The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

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

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

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.
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1.657 jetty-util 8.1.14.v20131031

1.658 coreutils 8.22-24.el7_9.2

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1.665 glibc 2.17-317.el7

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

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

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1.669 urllib3 1.26.4
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# Contributions to the urllib3 project

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In chronological order:

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  * HTTPS patch (which inspired HTTPSConnectionPool)

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

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

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

* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
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  * 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@ravelsystems.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

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  * Added HTTPS (CONNECT) proxy support

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

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

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

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

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

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

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

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

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

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

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

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

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

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

* Evgeny Kapun <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

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `"SSLKEYLOGFILE"` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

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

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

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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

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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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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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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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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

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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

------

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

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Assorted

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1.694 eclipse-osgi 3.10.1.v20140909-1633

1.694.1 Available under license:

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BIRT Runtime

What is it?
-----------
BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.
BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.
BIRT Engine is a report engine which generates report from defined report and related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce 24-bit images, 8-bit images, SWT graphics or SWING graphics.
You can find more information about BIRT and related technology from http://www.eclipse.org/birt/faq/

The Website for BIRT.
---------------------
You can find the manual, samples and other source from http://www.eclipse.org/birt.

Running the BIRT Engine in Console
----------------------------------
In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign
   xxx.rptdesign is the design file. If the design file is in the current directory, you have to specify it by \xxx.rptdesign

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BIRT Team
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Found in path(s):
* /opt/cola/permits/1045560687_1604651642.17/0/org-eclipse-osgi-3-10-1-v20140909-1633-sources-1-jar/runtime_readme.txt

1.695 glib 2.56.1-7.el7

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1.696 tomcat 9.0.33
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org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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1.703 pandas 1.1.5

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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.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

All Python releases are Open Source (see http://www.opensource.org for
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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.)

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at least
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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
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reproducing the executable from it. However, as a special exception,
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normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
the executable.

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use both them and the Library together in an executable that you
distribute.

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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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#STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.715 eclipse-core-resources

3.9.1.v20140825-1431

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BIRT Runtime

What is it?
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BIRT is an open source, Eclipse-based reporting system that integrates with your application to produce compelling reports for both web and PDF.

BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT chart. It also includes a BIRT Sample Web Viewer.

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

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

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

The Website for BIRT

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

Running the BIRT Engine in Console
-----------------------------------
In order to run the BIRT engine in command you should:

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
3. generate the report by run
   genReport xxx.rptdesign
xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by \xxx.rptdesign

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BIRT Team

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Found in path(s):
* /opt/cola/permits/1138400315_1614282063.14/0/org-eclipse-core-resources-3-9-1-v20140825-1431-sources-3-jar/runtime_readme.txt

1.716 avahi 0.6
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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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1.719 commons-codec 1.9

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1.721 bzip2 1.0.6-r5.12

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1.722 pciutils 3.5.1-r0.27

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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.

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The Red Hat developers, without whom CentOS would look very different

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If such an object file uses only numerical parameters, data
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1.729 snake-yaml 1.24

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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
OPEN SOURCE USED IN SVO 12.3.0  7315

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,-Bsymblic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

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

## Bind internal references

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

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

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

## End BSD-specific setup

1.732 nss 3.53.1-1.el7_9

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1.735 zlib 1.1.4

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*/

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1.736 cpio 2.11-28.el7

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may 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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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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Version 2.1, February 1999

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Original algorithm for the implementation of \texttt{rk\_interval} function from
Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
Magnus Jonsson.

Constants used in the \texttt{rk\_double} implementation by Isaku Wada.

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerPropertyHandler.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
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*/
/**
* used to check the 3 constraints against each complex type
* (should be each model group):
* Unique Particle Attribution, Particle Derivation (Restriction),
* Element Declarations Consistent.
*/

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  jar/org/apache/xerces/impl/io/UTF8Reader.java
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jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/xinclude/XIncludeHandler.java
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jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
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jar/org/apache/xerces/xinclude/XIncludeTextReader.java
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  jar/org/apache/xerces/dom/DOMMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
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  jar/org/apache/xerces/xinclude/SecuritySupport.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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  jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
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  jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
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  jar/org/apache/xerces/xni/XMLString.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
  jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/impl/doc/DocumentFragmentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/xs/models/XSAICM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XHTMLSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLErrorReporter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11Char.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLParser.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dom/NamedNodeMapImpl.java
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  jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java

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jar/org/apache/wml/dom/WMLTemplateElementImpl.java
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jar/org/apache/html/dom/HTMLTitleElementImpl.java
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jar/org/apache/wml/dom/WMLElementImpl.java
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jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
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jar/org/apache/html/dom/HTMLBaseElementImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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/ *
/**
* DOM Level 3 LS CR - Experimental.
* Create a new <code>LSParser</code>. The newly constructed parser may
* then be configured by means of its <code>DOMConfiguration</code>
* object, and used to parse documents by means of its <code>parse</code>
* method.
* @param mode  The <code>mode</code> argument is either
*  <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
*  <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
*  <code>LSParser</code> that is created will operate in synchronous
*  mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
*  <code>LSParser</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>LSParser</code>. Note that no lexical checking
*  is done on the absolute URI. In order to create a
*  <code>LSParser</code> for any kind of schema types (i.e. the
*  <code>LSParser</code> will be free to use any schema found), use the value
*  <code>null</code>.
*  , applications must use the value
*  "http://www.w3.org/2001/XMLSchema"
*  For XML DTD [a href="http://www.w3.org/TR/2000/REC-xml-20001006"/XML 1.0</a>],
* 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>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.
* <p></p><b>Note:</b> By default, the newly created <code>LSParser</code>
* does not contain a <code>DOMErrorHandler</code>, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>
* error-handler</a>" configuration parameter is <code>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>error-handler</code> configuration
* parameter on the new created <code>LSParser</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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arj/org/apache/xerces/dom/PSVIDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
arj/org/apache/xerces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
arj/org/apache/xerces/dom/PSVIElementNSImpl.java

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jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1124919501_161197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1124919501_161197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1124919501_161197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1124919501_161197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /opt/cola/permits/1124919501_161197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
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jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1124919501_161197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1124919501_161197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/impl/dv/xs/TimeDV.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDVValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DTDScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/URI.java

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jar/org/apache/xerces/impl/dtd/XMLDTDLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xml/serialize/DOMSerializerImpl.java

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jar/org/apache/wml/WMLIElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLSelectElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLTrElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLDoElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLCardElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLMetaElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLFieldsetElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLSetvarElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLTemplateElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLInputElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLImgElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLDocument.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLPrevElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLAnchorElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLRefreshElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/XMLAccessElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSElementDeclaration.java
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1.758 junixsocket-native-common 2.2.1

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1075342579_1596112417.35/0/junixsocket-native-common-2-2-1-sources-jar/org/newsclub/lib/junixsocket/common/NarMetadata.java

1.759 pyasn1 0.1.9

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1.760 python-setuptools 0.9.8 7.el7

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1.761 zip 3.0-r2.12

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1.762 matplotlib 3.3.4

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# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn whitegrid parameters
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FullName Symbol
FamilyName Symbol
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IsFixedPitch false
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UnderlinePosition -100
UnderlineThickness 50
Version 001.008
Notice Copyright (c) 1985, 1987, 1989, 1990, 1997 Adobe Systems Incorporated. All rights reserved.
EncodingScheme FontSpecific
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C 42 ; WX 500 ; N asteriskmath ; B 65 134 427 551 ;
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C 132 ; WX 713 ; N infinity ; B 26 124 688 404 ;
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patch.edgecolor: EEEEEE
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font.size: 10.0

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axes.labelsize: large
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ytick.color: 555555
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grid.linestyle: -  # solid line

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CC atilde 2 ; PCC a 0 0 ; PCC tilde 102 0 ;
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-----------------------------------------------------------
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#Author: Cameron Davidson-Pilon, original styles from Bayesian Methods for Hackers
# https://github.com/CamDavidsonPilon/Probabilistic-Programming-and-Bayesian-Methods-for-Hackers/

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KPX rcaron comma -111
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C 56 ; WX 456 ; N eight ; B 57 -19 505 710 ;
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C 58 ; WX 273 ; N colon ; B 75 0 288 512 ;
C 59 ; WX 273 ; N semicolon ; B 46 -168 288 512 ;
C 60 ; WX 479 ; N less ; B 67 -8 537 514 ;
C 61 ; WX 479 ; N equal ; B 48 87 519 419 ;
C 62 ; WX 479 ; N greater ; B 30 -8 500 514 ;
C 63 ; WX 501 ; N question ; B 135 0 550 727 ;
C 64 ; WX 800 ; N at ; B 152 -19 782 737 ;
C 65 ; WX 592 ; N A ; B 16 0 576 718 ;
C 66 ; WX 592 ; N B ; B 62 0 626 718 ;
C 67 ; WX 592 ; N C ; B 88 -19 647 737 ;
C 68 ; WX 592 ; N D ; B 62 0 637 718 ;
C 69 ; WX 547 ; N E ; B 62 0 620 718 ;
C 70 ; WX 501 ; N F ; B 62 0 606 718 ;
C 71 ; WX 638 ; N G ; B 89 -19 670 737 ;
C 72 ; WX 592 ; N H ; B 58 0 669 718 ;
C 73 ; WX 228 ; N I ; B 52 0 301 718 ;
C 74 ; WX 456 ; N J ; B 49 -18 522 718 ;
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C 83 ; WX 547 ; N S ; B 66 -19 588 737 ;
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C 86 ; WX 547 ; N V ; B 141 0 656 718 ;
C 87 ; WX 774 ; N W ; B 138 0 887 718 ;
C 88 ; WX 547 ; N X ; B 11 0 648 718 ;
C 89 ; WX 547 ; N Y ; B 137 0 661 718 ;
C 90 ; WX 501 ; N Z ; B 20 0 604 718 ;
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C 92 ; WX 228 ; N backslash ; B 101 -19 252 737 ;
C 93 ; WX 273 ; N bracketright ; B -14 -196 347 722 ;
C 94 ; WX 479 ; N asciicircum ; B 107 323 484 698 ;
C 95 ; WX 456 ; N underscore ; B -22 -125 443 -75 ;
C 96 ; WX 228 ; N quoteleft ; B 136 454 296 727 ;
C 97 ; WX 456 ; N a ; B 45 -14 478 546 ;
C 98 ; WX 501 ; N b ; B 50 -14 529 718 ;
C 99 ; WX 456 ; N c ; B 65 -14 491 546 ;
C 100 ; WX 501 ; N d ; B 67 -14 577 718 ;
C 101 ; WX 456 ; N e ; B 58 -14 486 546 ;

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Open Source Used In SVO 12.3.0 7746
Open Source Used In SVO 12.3.0  7749
C -1 ; WX 592 ; N Acircumflex ; B 16 0 579 936 ;
C -1 ; WX 604 ; N copyright ; B 46 -19 685 737 ;
C -1 ; WX 592 ; N Agrave ; B 16 0 576 936 ;
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C -1 ; WX 501 ; N oacute ; B 67 -14 537 750 ;
C -1 ; WX 328 ; N degree ; B 143 426 383 712 ;
C -1 ; WX 228 ; N igrave ; B 57 0 268 750 ;
C -1 ; WX 501 ; N mu ; B 18 -207 540 532 ;
C -1 ; WX 638 ; N Oacute ; B 88 -19 675 936 ;
C -1 ; WX 501 ; N eth ; B 67 -14 549 737 ;
C -1 ; WX 592 ; N Adieresis ; B 16 0 588 915 ;
C -1 ; WX 547 ; N Yacute ; B 137 0 661 936 ;
C -1 ; WX 230 ; N brokenbar ; B 66 -19 289 737 ;
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KPX A G -50
KPX A C -40

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Open Source Used In SVO 12.3.0  7750
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KPX s w -15

KPX semicolon space -40

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KPX space quotedblleft -80
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KPX space V -80
KPX space T -100

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KPX w comma -40

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KPX z e 10

EndKernPairs
EndKernData

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CC Agrave 2 ; PCC A 0 0 ; PCCgrave 192 186 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 192 186 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 192 186 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 176 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 169 186 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 169 186 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 169 186 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 169 186 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 10 186 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 10 186 ;
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C -1 ; WX 278 ; N grave ; B 49 -11 284 664 ;
C -1 ; WX 500 ; N mu ; B -30 -209 497 428 ;
C -1 ; WX 722 ; N acute ; B 60 -18 699 876 ;
C -1 ; WX 500 ; N eth ; B 27 -11 482 683 ;
C -1 ; WX 611 ; N diaeresis ; B -51 0 564 818 ;
C -1 ; WX 556 ; N yacute ; B 78 0 633 876 ;
C -1 ; WX 275 ; N brokenbar ; B 105 -18 171 666 ;
C -1 ; WX 750 ; N onehalf ; B 34 -10 749 676 ;
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StartKernPairs 283

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KPX A C -30

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KPX D W -40
KPX D V -40
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KPX FA -115

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KPX o g -10
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KPX y e 0
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KPX z e 0
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CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 139 212 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 149 212 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 129 192 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 139 212 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 167 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 149 212 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 169 212 ;
CC Edieres 2 ; PCC E 0 0 ; PCC dieresis 159 212 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 149 212 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 10 212 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 40 212 ;
CC Idieres 2 ; PCC I 0 0 ; PCC dieresis 30 212 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 10 212 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 177 212 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 195 212 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 230 212 ;
CC Odieres 2 ; PCC O 0 0 ; PCC dieresis 230 212 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 205 212 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 215 212 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 94 212 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 195 212 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 215 212 ;
CC Udieres 2 ; PCC U 0 0 ; PCC dieresis 225 212 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 215 212 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 132 212 ;
CC Ydieres 2 ; PCC Y 0 0 ; PCC dieresis 142 212 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 112 212 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 84 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 84 0 ;
CC adieres 2 ; PCC a 0 0 ; PCC dieresis 84 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 84 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 84 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 56 0 ;
This directory contains font metrics for the 14 PDF Core Fonts, downloaded from Adobe. The title and this paragraph were added by Matplotlib developers. The download URL was <http://partners.adobe.com/public/developer/font/index.html>.

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StartFontMetrics 2.0
Comment Creation Date: Thu Jun 21 22:23:20 1990
C 206 ; WX 333 ; N ogonek ; B 168 -163 346 3 ;
C 207 ; WX 333 ; N caron ; B -10 547 344 725 ;
C 208 ; WX 1000 ; N emdash ; B 0 184 1000 292 ;
C 225 ; WX 981 ; N AE ; B -29 0 963 722 ;
C 227 ; WX 367 ; N ordfeminine ; B 1 407 393 705 ;
C 232 ; WX 722 ; N Lslash ; B 19 0 703 722 ;
C 233 ; WX 833 ; N Oslash ; B 39 -53 794 775 ;
C 234 ; WX 1000 ; N OE ; B 0 0 982 722 ;
C 235 ; WX 367 ; N ordmasculine ; B 1 407 366 705 ;
C 241 ; WX 870 ; N ae ; B 32 -15 838 485 ;
C 245 ; WX 370 ; N dotlessi ; B 26 0 338 475 ;
C 248 ; WX 352 ; N lslash ; B 17 0 329 737 ;
C 249 ; WX 611 ; N oslash ; B 32 -103 579 573 ;
C 250 ; WX 907 ; N oe ; B 32 -15 875 485 ;
C 251 ; WX 611 ; N germandbls ; B -2 -15 580 737 ;
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C -1 ; WX 611 ; N ograve ; B 32 -15 579 737 ;
C -1 ; WX 685 ; N uacute ; B 17 -15 668 737 ;
C -1 ; WX 685 ; N ucircumflex ; B 17 -15 668 725 ;
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C -1 ; WX 370 ; Nigrave ; B 21 0 338 737 ;
C -1 ; WX 444 ; N Icircumflex ; B 29 0 415 952 ;
C -1 ; WX 556 ; N ccedilla ; B 32 -224 524 485 ;
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C -1 ; WX 500 ; N scaron ; B 48 -15 476 725 ;
C -1 ; WX 667 ; N thorn ; B 17 -205 629 737 ;
C -1 ; WX 1000 ; N trademark ; B 6 317 982 722 ;
C -1 ; WX 574 ; N egrave ; B 32 -15 542 737 ;
C -1 ; WX 344 ; N threesuperior ; B -3 273 355 705 ;
C -1 ; WX 537 ; N zcaron ; B 38 0 499 725 ;
C -1 ; WX 611 ; N atilde ; B 40 -15 601 705 ;
C -1 ; WX 611 ; N aring ; B 40 -15 601 761 ;
C -1 ; WX 611 ; N ocircumflex ; B 32 -15 579 725 ;
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C -1 ; WX 833 ; N Ograve ; B 39 -15 794 964 ;
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KPX A v -18
KPX A quoteright -74
KPX A quotedblright -74
KPX A Y -91
KPX A W -74
KPX A V -74
KPX A U -18
KPX A T -55

KPX C period -18
KPX C comma -18

KPX D period -25
KPX D comma -25

KPX F r -18
KPX F period -125
KPX F o -55
KPX F i -18
KPX F e -55
KPX F comma -125
KPX F a -74

KPX J u -18
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KPX J o -18
KPX J e -18
KPX J comma -55
KPX J a -18
KPX J A -18

KPX K y -25
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KPX L y -25
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KPX L Y -74
KPX L W -74
KPX L V -100
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KPX N period -18
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KPX O period -25
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KPX O T 10

KPX P period -150
KPX P o -55
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KPX P a -55
KPX P A -74

KPX S period -18
KPX S comma -18

KPX T u -18
KPX T r -18
KPX T period -100
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KPX T i -18
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KPX T O 10
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KPX U period -25
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KPX U A -18

KPX V u -55
KPX V semicolon -37
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KPX W y -25
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KPX space A -18

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KPX w period -100
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KPX y period -100
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EndKernData

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CC Aring 2 ; PCC A 0 0 ; PCC ring 213 227 ;
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CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 121 0 ;
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CC ntilde 2 ; PCC n 0 0 ; PCC tilde 176 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 139 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 139 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 139 0 ;
CC ogave 2 ; PCC o 0 0 ; PCC grave 139 0 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 139 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 84 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 176 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 176 0 ;
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CC zcaron 2 ; PCC z 0 0 ; PCC caron 102 0 ;
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EndFontMetrics
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Comment Creation Date: Wed Jan 17 21:48:26 1990
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FontName Symbol
FullName Symbol
FamilyName Symbol
Weight Medium
ItalicAngle 0
IsFixedPitch false
FontBBox -180 -293 1090 1010
UnderlinePosition -98
UnderlineThickness 54
Version 001.007
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EncodingScheme FontSpecific
StartCharMetrics 189
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclamation ; B 128 -17 240 672 ;
C 82 ; WX 556 ; N Rho ; B 28 0 563 673 ;
C 83 ; WX 592 ; N Sigma ; B 5 0 589 673 ;
C 84 ; WX 611 ; N Tau ; B 33 0 607 673 ;
C 85 ; WX 690 ; N Upsilon ; B -8 0 694 673 ;
C 86 ; WX 439 ; N sigma1 ; B 40 -233 436 500 ;
C 87 ; WX 768 ; N Omega ; B 34 0 736 688 ;
C 88 ; WX 645 ; N Xi ; B 40 0 599 673 ;
C 89 ; WX 795 ; N Psi ; B 15 0 781 684 ;
C 90 ; WX 611 ; N Zeta ; B 44 0 636 673 ;
C 91 ; WX 333 ; N bracketleft ; B 86 -155 299 674 ;
C 92 ; WX 863 ; N therefore ; B 163 0 701 478 ;
C 93 ; WX 333 ; N bracketright ; B 33 -155 246 674 ;
C 94 ; WX 658 ; N perpendicular ; B 15 0 652 674 ;
C 95 ; WX 500 ; N underscore ; B -2 -252 502 -206 ;
C 96 ; WX 500 ; N radicalex ; B 480 881 1090 917 ;
C 97 ; WX 631 ; N alpha ; B 41 -18 622 500 ;
C 98 ; WX 549 ; N beta ; B 61 -223 515 741 ;
C 99 ; WX 549 ; N chi ; B 12 -231 522 499 ;
C 100 ; WX 494 ; N delta ; B 40 -19 481 740 ;
C 101 ; WX 439 ; N epsilon ; B 22 -19 427 502 ;
C 102 ; WX 521 ; N phi ; B 27 -224 490 671 ;
C 103 ; WX 411 ; N gamma ; B 5 -225 484 499 ;
C 104 ; WX 603 ; N eta ; B 0 -202 527 514 ;
C 105 ; WX 329 ; N iota ; B 0 -17 301 503 ;
C 106 ; WX 603 ; N phi1 ; B 36 -224 587 499 ;
C 107 ; WX 549 ; N kappa ; B 33 0 558 501 ;
C 108 ; WX 549 ; N lambda ; B 24 -17 548 739 ;
C 109 ; WX 576 ; N mu ; B 33 -223 567 500 ;
C 110 ; WX 521 ; N nu ; B 9 -16 475 507 ;
C 111 ; WX 549 ; N omicron ; B 35 -19 501 499 ;
C 112 ; WX 549 ; N pi ; B 10 -19 530 487 ;
C 113 ; WX 521 ; N theta ; B 43 -17 485 690 ;
C 114 ; WX 549 ; N rho ; B 50 -230 490 499 ;
C 115 ; WX 603 ; N sigma ; B 30 -21 588 500 ;
C 116 ; WX 439 ; N tau ; B 10 -19 418 500 ;
C 117 ; WX 576 ; N upsilon ; B 7 -18 535 507 ;
C 118 ; WX 713 ; N omega ; B 12 -18 671 583 ;
C 119 ; WX 686 ; N omega1 ; B 12 -17 684 500 ;
C 120 ; WX 493 ; N xi ; B 27 -224 469 766 ;
C 121 ; WX 686 ; N psi ; B 12 -228 701 500 ;
C 122 ; WX 494 ; N zeta ; B 60 -225 467 756 ;
C 123 ; WX 480 ; N braceleft ; B 58 -183 397 673 ;
C 124 ; WX 200 ; N bar ; B 65 -177 135 673 ;
C 125 ; WX 480 ; N braceright ; B 79 -183 418 673 ;
C 126 ; WX 549 ; N similar ; B 17 203 529 307 ;
C 161 ; WX 620 ; N Upsilon1 ; B -2 0 610 685 ;
C 162 ; WX 247 ; N minute ; B 27 459 228 735 ;
C 163 ; WX 549 ; N lessequal ; B 29 0 526 639 ;
The Anti-Grain Geometry Project
A high quality rendering engine for C++
http://antigrain.com
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StartFontMetrics

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FullName Helvetica Bold Oblique
FamilyName Helvetica
Weight Bold
ItalicAngle -12
IsFixedPitch false
FontBBox -174 -228 1114 962
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.Helvetica is a
trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender 718
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C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;
C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;
C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;
C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;
C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;
C 41 ; WX 333 ; N parenright ; B -25 -208 369 734 ;
C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;
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C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;
C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;
C 46 ; WX 278 ; N period ; B 64 0 245 146 ;
C 47 ; WX 278 ; N slash ; B -37 -19 468 737 ;
C 48 ; WX 556 ; N zero ; B 86 -19 617 710 ;
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KPX T w -60
KPX T u -90
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KPX U period -30
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KPX W u -45
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KPX W o -60
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KPX W A -60
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CC Igrave 2 ; PCC I 0 0 ; PCC grave 13 186 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 235 186 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 263 186 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 263 186 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 263 186 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 263 186 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 263 186 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 207 186 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 235 186 ;
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CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 235 186 ;
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CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;
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CC atilde 2 ; PCC a 0 0 ; PCC tilde 112 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 132 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 139 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 139 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 139 0 ;
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CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;
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CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 0 ;
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CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 139 0 ;
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| C 112 | WX 762 | N a203 | B 35 0 727 692 |
| C 113 | WX 759 | N a75 | B 35 0 725 692 |
| C 114 | WX 759 | N a204 | B 35 0 725 692 |
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| C 116 | WX 892 | N a77 | B 35 -14 858 692 |
| C 117 | WX 788 | N a78 | B 35 -14 754 705 |
| C 118 | WX 784 | N a79 | B 35 -14 749 705 |
| C 119 | WX 438 | N a81 | B 35 -14 403 705 |
| C 120 | WX 138 | N a82 | B 35 0 104 692 |
| C 121 | WX 277 | N a83 | B 35 0 242 692 |
| C 122 | WX 415 | N a84 | B 35 0 380 692 |
| C 123 | WX 392 | N a97 | B 35 263 357 705 |
| C 124 | WX 392 | N a98 | B 34 263 357 705 |
| C 125 | WX 668 | N a99 | B 35 263 633 705 |
| C 126 | WX 668 | N a100 | B 36 263 634 705 |
| C 127 | WX 732 | N a101 | B 35 -143 697 806 |
| C 128 | WX 544 | N a102 | B 35 -14 488 706 |
| C 129 | WX 544 | N a103 | B 34 -14 508 705 |
| C 130 | WX 910 | N a104 | B 35 40 875 651 |
| C 131 | WX 667 | N a106 | B 35 -14 633 705 |
| C 132 | WX 760 | N a107 | B 35 -14 726 705 |
| C 133 | WX 760 | N a108 | B 0 121 758 569 |
| C 134 | WX 776 | N a112 | B 35 0 741 705 |
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| C 137 | WX 626 | N a109 | B 34 0 591 705 |
| C 138 | WX 788 | N a120 | B 35 -14 754 705 |
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| C 141 | WX 788 | N a123 | B 35 -14 754 705 |
| C 142 | WX 788 | N a124 | B 35 -14 754 705 |
| C 143 | WX 788 | N a125 | B 35 -14 754 705 |
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| C 146 | WX 788 | N a128 | B 35 -14 754 705 |
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| C 148 | WX 788 | N a130 | B 35 -14 754 705 |
| C 149 | WX 788 | N a131 | B 35 -14 754 705 |
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| C 151 | WX 788 | N a133 | B 35 -14 754 705 |
| C 152 | WX 788 | N a134 | B 35 -14 754 705 |
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KPX Aacute T -120
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KPX Aacute yacute -40
KPX Aacute ydieresis -40
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version 001.006
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Open Source Used in SVO 12.3.0  7949
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AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al.,
although the Yorick implementations are unrelated to those in
Numerical Recipes. A small amount of code in Gist was adapted from
the X11R4 release, copyright M.I.T. -- the complete copyright notice
may be found in the (unused) file Gist/host.c.
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Comment VMusage 31030 37922
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EndKernData
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CC Aacute 2 ; PCC A 0 0 ; PCC acute 259 225 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 259 225 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 259 225 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 259 225 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 229 245 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 259 225 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 296 225 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 296 225 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 296 225 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 296 225 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 116 225 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 116 225 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 116 225 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 116 225 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 326 225 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 315 225 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 315 225 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 315 225 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 315 225 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 315 225 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 206 225 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 340 225 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 340 225 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 340 225 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 340 225 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 246 225 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 236 225 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 226 225 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 167 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 167 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 167 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 167 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 167 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 167 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 93 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 93 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 93 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 93 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -2 -7 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -2 -7 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -2 -7 ;
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -2 -7 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 176 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 121 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 121 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 121 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 121 0 ;
CC otilded 2 ; PCC o 0 0 ; PCC tilde 121 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 74 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 176 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 176 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 176 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 176 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 93 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 93 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 63 -10 ;
EndComposites
EndFontMetrics
# Set black background default line colors to white.

lines.color: white
patch.edgecolor: white

text.color: white

axes.facecolor: black
axes.edgecolor: white
axes.labelcolor: white
axes.prop_cycle: cycler('color', ['8dd3c7', 'ffed6f', '81b1d2', 'bfbbd9', 'fa8174', '81b1d2', 'b3de69', 'bc82bd', 'cccebc4', 'f0f0f0'])

xtick.color: white
ytick.color: white

grid.color: white
figure.facecolor: black
figure.edgecolor: black

savefig.facecolor: black
savefig.edgecolor: black

### Boxplots
boxplot.boxprops.color: white
boxplot.capprops.color: white
boxplot.flierprops.color: white
boxplot.flierprops.markeredgecolor: white
boxplot.whiskerprops.color: white

# Solarized color palette taken from http://ethanschoonover.com/solarized
# Inspired by, and copied from ggthemes https://github.com/jrnold/ggthemes

# TODO:
# 1. Padding to title from face
# 2. Remove top & right ticks
# 3. Give Title a Magenta Color(?)

#base00 = '#657b83'
#base01 = '#93a1a1'
#base2  = '#eee8d5'
#base3  = '#fdf6e3'
#base01 = '#586e75'
#Magenta = '#d33682'
#Blue   = '#268bd2'
#cyan   = '#2aa198'
#violet = '#6c71c4'
#green  = '#859900'
#orange = '#cb4b16'

figure.facecolor: FDF6E3
patch.antialiased: True

lines.linewidth: 2.0
lines.solid_capstyle: butt

axes.titlesize: 16
axes.labelsize: 12
axes.labelcolor: 657b83
axes.facecolor: eee8d5
axes.edgecolor: eee8d5
axes.axisbelow: True
axes.prop_cycle: cycler('color', ['268BD2', '2AA198', '859900', 'B58900', 'CB4B16', 'DC322F', 'D33682', '6C71C4'])

# Blue
# Cyan
# Green
# Yellow
# Orange
# Red
# Magenta
# Violet

axes.grid           : True
grid.color          : fdf6e3    # grid color
grid.linestyle      : -         # line
grid.linewidth      : 1         # in points

### TICKS
xtick.color         : 657b83
xtick.direction     : out

ytick.color         : 657b83
ytick.direction     : out

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https://fontawesome.com/license/free

Icons are based on Font Awesome 5.11.2 and colors have been adapted.

StartFontMetrics 2.0
Comment Creation Date: Tue Mar 20 12:15:44 1990
Comment UniqueID 28416
Comment VMusage 30487 37379
FontName Times-Roman
FullName Times Roman
FamilyName Times
Weight Roman
ItalicAngle 0
IsFixedPitch false
FontBBox -168 -218 1000 898
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.Times is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 662
XHeight 450
Ascender 683
Descender -217
StartCharMetrics 228
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 130 -9 238 676 ;
KPX A U -55
KPX A T -111
KPX A Q -55
KPX A O -55
KPX A G -40
KPX A C -40

KPX B period 0
KPX B comma 0
KPX B U -10
KPX B A -35

KPX D period 0
KPX D comma 0
KPX D Y -55
KPX D W -30
KPX D V -40
KPX D A -40

KPX F r 0
KPX F period -80
KPX F o -15
KPX F i 0
KPX F e 0
KPX F comma -80
KPX F a -15
KPX F A -74

KPX G period 0
KPX G comma 0

KPX J u 0
KPX J period 0
KPX J o 0
KPX J e 0
KPX J comma 0
KPX J a 0
KPX J A -60

KPX K y -25
KPX K u -15
KPX K o -35
KPX K e -25
KPX K O -30

KPX L y -55
KPX L quoteright -92
KPX L quotedblright 0
KPX L Y -100
KPX L W -74
KPX L V -100
KPX L T -92

KPX N period 0
KPX N comma 0
KPX N A -35

KPX O period 0
KPX O comma 0
KPX O Y -50
KPX O X -40
KPX O W -35
KPX O V -50
KPX O T -40
KPX O A -35

KPX P period -111
KPX P o 0
KPX P e 0
KPX P comma -111
KPX P a -15
KPX P A -92

KPX Q period 0
KPX Q comma 0
KPX Q U -10

KPX R Y -65
KPX R W -55
KPX R V -80
KPX R U -40
KPX R T -60
KPX R O -40

KPX S period 0
KPX S comma 0

KPX T y -80
KPX T w -80
KPX T u -45
KPX T semicolon -55
KPX T r -35
KPX T period -74
KPX T o -80
KPX T i -35
KPX T hyphen -92
KPX s w 0

KPX space quotearrowleft 0
KPX space quotedblarrowleft 0
KPX space Y -90
KPX space W -30
KPX space V -50
KPX space T -18
KPX space A -55

KPX v period -65
KPX v o -20
KPX v e -15
KPX v comma -65
KPX v a -25

KPX w period -65
KPX w o -10
KPX w h 0
KPX w e 0
KPX w comma -65
KPX w a -10

KPX x e -15

KPX y period -65
KPX y o 0
KPX y e 0
KPX y comma -65
KPX y a 0

KPX z o 0
KPX z e 0
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 212 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 212 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 212 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 212 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 185 187 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 212 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 167 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 212 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 212 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 212 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 212 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 0 212 ;
C -1 ; WX 444 ; N zcaron ; B 21 0 420 704 ;
C -1 ; WX 556 ; N ncommaaccent ; B 21 -218 539 473 ;
C -1 ; WX 300 ; N onesuperior ; B 28 275 273 688 ;
C -1 ; WX 278 ; N imacron ; B -8 0 272 637 ;
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;
EndCharMetrics
StartKernData
StartKernPairs 2242
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KPX A Cacute -55
KPX A Ccaron -55
KPX A Ccedilla -55
KPX A G -55
KPX A Gbreve -55
KPX A Gcommaaccent -55
KPX A O -45
KPX A Oacute -45
KPX A Ocircumflex -45
KPX A Odieresis -45
KPX A Ograve -45
KPX A Ohungarumlaut -45
KPX A Omacron -45
KPX A Oslash -45
KPX A Otilde -45
KPX A Q -45
KPX A T -95
KPX A Tcaron -95
KPX A Tecommaaccent -95
KPX A U -50
KPX A Uacute -50
KPX A Ucircumflex -50
KPX A Udieresis -50
KPX A Ugrave -50
KPX A Uhungarumlaut -50
KPX A Umacron -50
KPX A Uogonek -50
KPX A Uring -50
KPX A V -145
KPX A W -130
KPX A Y -100
KPX A Yacute -100
KPX A Ydieresis -100
KPX A p -25
KPX A quoteright -74
KPX A u -50
KPX A uacute -50
KPX A ucircumflex -50
KPX A udieresis -50
KPX Abreve u -50
KPX Abreve uacute -50
KPX Abreve ucircumflex -50
KPX Abreve udieresis -50
KPX Abreve ugrave -50
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KPX Abreve umacron -50
KPX Abreve uogonek -50
KPX Abreve uring -50
KPX Abreve v -100
KPX Abreve w -90
KPX Abreve y -74
KPX Abreve yacute -74
KPX Abreve ydieresis -74
KPX Acircumflex C -55
KPX Acircumflex Cacute -55
KPX Acircumflex Ccaron -55
KPX Acircumflex Ccedilla -55
KPX Acircumflex G -55
KPX Acircumflex Gbreve -55
KPX Acircumflex Gcommaaccent -55
KPX Acircumflex O -45
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KPX Acircumflex Tcommaaccent -95
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KPX Acircumflex Ucircumflex -50
KPX Acircumflex Udieresis -50
KPX Acircumflex Ugrave -50
KPX Acircumflex Uhungarumlaut -50
KPX Acircumflex Umacron -50
KPX Acircumflex Uogonek -50
KPX Acircumflex Uring -50
KPX Acircumflex V -145
KPX Acircumflex W -130
KPX Acircumflex Y -100
KPX Acircumflex Yacute -100
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KPX Adieresis Yacute -100
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KPX J otilde -15
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KPX J uring -15
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KPX K Odieresis -30
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KPX K Ohungarumlaut -30
KPX K Omacron -30
KPX K Oslash -30
KPX K Otilde -30
Comment UniqueID 28389
Comment VMusage 7572 42473
FontName Helvetica-Narrow-Oblique
FullName Helvetica Narrow Oblique
FamilyName Helvetica
Weight Medium
ItalicAngle -12
IsFixedPitch false
FontBBox -139 -225 915 931
UnderlinePosition -100
UnderlineThickness 50
Version 001.006
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 523
Ascender 718
Descender -207
StartCharMetrics 228
C 32 ; WX 228 ; N space ; B 0 0 0 0 ;
C 33 ; WX 228 ; N exclaim ; B 74 0 278 718 ;
C 34 ; WX 291 ; N quotedbl ; B 138 463 359 718 ;
C 35 ; WX 456 ; N numbersign ; B 60 0 517 688 ;
C 36 ; WX 456 ; N dollar ; B 57 -115 506 775 ;
C 37 ; WX 729 ; N percent ; B 120 -19 729 703 ;
C 38 ; WX 547 ; N ampersand ; B 63 -15 530 718 ;
C 39 ; WX 182 ; N quoteright ; B 124 463 254 718 ;
C 40 ; WX 273 ; N parenleft ; B 89 -207 372 733 ;
C 41 ; WX 273 ; N parenright ; B -7 -207 276 733 ;
C 42 ; WX 319 ; N asterisk ; B 135 431 389 718 ;
C 43 ; WX 479 ; N plus ; B 70 497 505 ;
C 44 ; WX 228 ; N comma ; B 46 -147 175 106 ;
C 45 ; WX 273 ; N hyphen ; B 77 232 293 322 ;
C 46 ; WX 228 ; N period ; B 71 0 175 106 ;
C 47 ; WX 228 ; N slash ; B -17 -19 370 737 ;
C 48 ; WX 456 ; N zero ; B 77 -19 499 703 ;
C 49 ; WX 456 ; N one ; B 170 417 703 ;
C 50 ; WX 456 ; N two ; B 21 0 506 703 ;
C 51 ; WX 456 ; N three ; B 61 -19 500 703 ;
C 52 ; WX 456 ; N four ; B 50 472 703 ;
C 53 ; WX 456 ; N five ; B 55 -19 509 688 ;
C 54 ; WX 456 ; N six ; B 74 -19 504 703 ;
C 55 ; WX 456 ; N seven ; B 112 0 549 688 ;
C 56 ; WX 456 ; N eight ; B 60 -19 497 703 ;
C 57 ; WX 456 ; N nine ; B 67 -19 499 703 ;
C 58 ; WX 228 ; N colon ; B 71 0 247 516 ;
C 59 ; WX 228 ; N semicolon ; B 46 -147 247 516 ;

Open Source Used In SVO 12.3.0  8041
KPX J u -20
KPX J period -30
KPX J comma -30
KPX J a -20
KPX J A -20

KPX K y -50
KPX K u -30
KPX K o -40
KPX K e -40
KPX K O -50

KPX L y -30
KPX L quoteright -160
KPX L quotedblright -140
KPX L Y -140
KPX L W -70
KPX L V -110
KPX L T -110

KPX O period -40
KPX O comma -40
KPX O Y -70
KPX O X -60
KPX O W -30
KPX O V -50
KPX O T -40
KPX O A -20

KPX P period -180
KPX P o -50
KPX P e -50
KPX P comma -180
KPX P a -40
KPX P A -120

KPX Q U -10

KPX R Y -50
KPX R W -30
KPX R V -50
KPX R U -40
KPX R T -30
KPX R O -20

KPX S period -20
KPX S comma -20
KPX k o -20
KPX k e -20

KPX m y -15
KPX m u -10

KPX n y -15
KPX n v -20
KPX n u -10

KPX o y -30
KPX o x -30
KPX o w -15
KPX o v -15
KPX o period -40
KPX o comma -40

KPX oslash z -55
KPX oslash y -70
KPX oslash x -85
KPX oslash w -70
KPX oslash v -70
KPX oslash u -55
KPX oslash t -55
KPX oslash s -55
KPX oslash r -55
KPX oslash q -55
KPX oslash period -95
KPX oslash p -55
KPX oslash o -55
KPX oslash n -55
KPX oslash m -55
KPX oslash l -55
KPX oslash k -55
KPX oslash j -55
KPX oslash i -55
KPX oslash h -55
KPX oslash g -55
KPX oslash f -55
KPX oslash e -55
KPX oslash d -55
KPX oslash comma -95
KPX oslash c -55
KPX oslash b -55
KPX oslash a -55

KPX p y -30
KPX p period -35
KPX v comma -80  
KPX v a -25  

KPX w period -60  
KPX w o -10  
KPX w e -10  
KPX w comma -60  
KPX w a -15  

KPX x e -30  

KPX y period -100  
KPX y o -20  
KPX y e -20  
KPX y comma -100  
KPX y a -20  

KPX z o -15  
KPX z e -15  
EndKernPairs  
EndKernData  
StartComposites 58  
CC Aacute 2 ; PCC A 0 0 ; PCC acute 171 195 ;  
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 171 195 ;  
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 171 195 ;  
CC Agrave 2 ; PCC A 0 0 ; PCC grave 171 195 ;  
CC Aring 2 ; PCC A 0 0 ; PCC ring 167 175 ;  
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 171 195 ;  
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;  
CC Eacute 2 ; PCC E 0 0 ; PCC acute 171 195 ;  
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 171 195 ;  
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 171 195 ;  
CC Egrave 2 ; PCC E 0 0 ; PCC grave 171 195 ;  
CC Iacute 2 ; PCC I 0 0 ; PCC acute 12 195 ;  
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 12 195 ;  
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 12 195 ;  
CC Igrave 2 ; PCC I 0 0 ; PCC grave 12 195 ;  
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 202 195 ;  
CC Oacute 2 ; PCC O 0 0 ; PCC acute 217 195 ;  
CC Ocircuitflex 2 ; PCC O 0 0 ; PCC circumflex 217 195 ;  
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 217 195 ;  
CC Ograve 2 ; PCC O 0 0 ; PCC grave 217 195 ;  
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 217 195 ;  
CC Scaron 2 ; PCC S 0 0 ; PCC caron 171 195 ;  
CC Uacute 2 ; PCC U 0 0 ; PCC acute 194 195 ;  
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 194 195 ;  
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 194 195 ;  
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 194 195 ;
C 208 ; WX 600 ; N emdash ; B 49 231 661 285 ;
C 225 ; WX 600 ; N AE ; B 3 0 655 562 ;
C 227 ; WX 600 ; N ordfeminine ; B 209 249 512 580 ;
C 232 ; WX 600 ; N Lslash ; B 47 0 607 562 ;
C 233 ; WX 600 ; N Oslash ; B 94 -80 625 629 ;
C 234 ; WX 600 ; N OE ; B 59 0 672 562 ;
C 235 ; WX 600 ; N ordmasculine ; B 210 249 535 580 ;
C 241 ; WX 600 ; N aec ; B 41 -15 626 441 ;
C 245 ; WX 600 ; N dotlessi ; B 95 0 515 426 ;
C 248 ; WX 600 ; N lslash ; B 95 0 583 562 ;
C 249 ; WX 600 ; N oae ; B 102 -80 588 506 ;
C 250 ; WX 600 ; N ae ; B 54 -15 615 441 ;
C 251 ; WX 600 ; N germandbls ; B 48 -15 617 629 ;
C -1 ; WX 600 ; N Odieresis ; B 94 -18 625 731 ;
C -1 ; WX 600 ; N logicalnot ; B 155 108 591 369 ;
C -1 ; WX 600 ; N minus ; B 129 232 580 283 ;
C -1 ; WX 600 ; N merge ; B 187 -15 503 436 ;
C -1 ; WX 600 ; N degree ; B 214 269 576 622 ;
C -1 ; WX 600 ; N dieresis ; B 18 0 593 227 ;
C -1 ; WX 600 ; N II ; B 33 0 616 629 ;
C -1 ; WX 600 ; N IJ ; B 32 -18 702 562 ;
C -1 ; WX 600 ; N Eacute ; B 53 0 668 793 ;
C -1 ; WX 600 ; N Ocircumflex ; B 94 -18 625 775 ;
C -1 ; WX 600 ; N ucircumflex ; B 101 -15 572 654 ;
C -1 ; WX 600 ; N left ; B 114 68 580 348 ;
C -1 ; WX 600 ; N threesuperior ; B 213 240 501 622 ;
C -1 ; WX 600 ; N up ; B 223 0 503 437 ;
C -1 ; WX 600 ; N multiply ; B 103 43 607 470 ;
C -1 ; WX 600 ; N Scaron ; B 76 -20 673 805 ;
C -1 ; WX 600 ; N tab ; B 19 0 641 562 ;
C -1 ; WX 600 ; N Ucircumflex ; B 125 -18 702 775 ;
C -1 ; WX 600 ; N divide ; B 136 48 573 467 ;
C -1 ; WX 600 ; N Acircumflex ; B 3 0 607 775 ;
C -1 ; WX 600 ; N eacute ; B 106 -15 612 672 ;
C -1 ; WX 600 ; N uacute ; B 101 -15 602 672 ;
C -1 ; WX 600 ; N Aacute ; B 3 0 658 793 ;
C -1 ; WX 600 ; N copyright ; B 53 -18 667 580 ;
C -1 ; WX 600 ; N twosuperior ; B 230 249 535 622 ;
C -1 ; WX 600 ; N Ecircumflex ; B 53 0 660 775 ;
C -1 ; WX 600 ; N ntilde ; B 26 0 629 606 ;
C -1 ; WX 600 ; N down ; B 187 -15 467 426 ;
C -1 ; WX 600 ; N center ; B 103 14 623 580 ;
C -1 ; WX 600 ; N onesuperior ; B 231 249 491 622 ;
C -1 ; WX 600 ; N ij ; B 37 -157 630 657 ;
C -1 ; WX 600 ; N edieresis ; B 106 -15 598 595 ;
C -1 ; WX 600 ; N graybox ; B 76 0 652 599 ;
C -1 ; WX 600 ; N odieresis ; B 102 -15 588 595 ;
C -1 ; WX 600 ; N Ograve ; B 94 -18 625 793 ;
FontName Utopia-Bold
C -1 ; WX 768 ; N Oe circumflex ; B 42 -15 726 905 ;
C -1 ; WX 640 ; N Thorn ; B 33 0 622 692 ;
C -1 ; WX 544 ; N atilde ; B 41 -12 561 706 ;
C -1 ; WX 786 ; N Udieresis ; B 29 -15 757 881 ;
C -1 ; WX 519 ; N ecircumflex ; B 34 -12 505 747 ;
EndCharMetrics
StartKernData
StartKernPairs 685

KPX A z 25
KPX A y -40
KPX A w -42
KPX A v -48
KPX A u -18
KPX A t -12
KPX A s 6
KPX A quoteright -110
KPX A quotedblright -80
KPX A q -6
KPX A p -18
KPX A o -12
KPX A e -6
KPX A d -12
KPX A c -12
KPX A b -12
KPX A a -6
KPX A Y -64
KPX A X -18
KPX A W -54
KPX A V -70
KPX A U -40
KPX A T -58
KPX A Q -18
KPX A O -18
KPX A G -18
KPX A C -18

KPX B y -18
KPX B u -12
KPX B r -12
KPX B o -6
KPX B l -15
KPX B k -15
KPX B i -12
KPX B h -15
KPX B e -6
KPX B b -10
KPX B a -12
KPX B W -20
KPX B V -20
KPX B U -25
KPX B T -20

KPX C z -5
KPX C y -24
KPX C u -18
KPX C r -6
KPX C o -12
KPX C e -12
KPX C a -16
KPX C Q -6
KPX C O -6
KPX C G -6
KPX C C -6

KPX D u -12
KPX D r -12
KPX D period -40
KPX D o -5
KPX D i -12
KPX D h -18
KPX D e -5
KPX D comma -40
KPX D a -15
KPX D Y -60
KPX D W -40
KPX D V -40

KPX E y -30
KPX E w -24
KPX E v -24
KPX E u -12
KPX E t -18
KPX E s -12
KPX E r -4
KPX E q -6
KPX E period 10
KPX E p -18
KPX E o -6
KPX E n -4
KPX E m -4
KPX E j -6
KPX E i -6
KPX E g -6
KPX E e -6
KPX E d -6
KPX E comma 10
KPX E c -6
KPX E b -5
KPX E a -4
KPX E Y -6
KPX E W -6
KPX E V -6

KPX F y -18
KPX F u -12
KPX F r -36
KPX F quoteright 20
KPX F quotedblright 20
KPX F period -150
KPX F o -36
KPX F l -12
KPX F i -22
KPX F e -36
KPX F comma -150
KPX F a -48
KPX F A -60

KPX G y -12
KPX G u -12
KPX G r -18
KPX G quotedblright -20
KPX G n -18
KPX G l -6
KPX G i -12
KPX G h -12
KPX G a -12

KPX H y -24
KPX H u -26
KPX H o -30
KPX H i -18
KPX H e -30
KPX H a -25

KPX I z -6
KPX I y -6
KPX I x -6
KPX I w -18
KPX I v -24
KPX I u -26
KPX I t -24
KPX I s -18
KPX I r -12
KPX O b -15
KPX O a -12
KPX O Y -50
KPX O X -40
KPX O W -35
KPX O V -35
KPX O T -40
KPX O A -30

KPX P y 10
KPX P u -18
KPX P t -6
KPX P s -30
KPX P r -12
KPX P quoteright 20
KPX P quotedblright 20
KPX P period -200
KPX P o -36
KPX P n -12
KPX P l -15
KPX P i -6
KPX P hyphen -30
KPX P h -15
KPX P e -36
KPX P comma -200
KPX P a -36
KPX P I -20
KPX P H -20
KPX P E -20
KPX P A -85

KPX Q u -6
KPX Q a -18
KPX Q Y -50
KPX Q X -40
KPX Q W -35
KPX Q V -35
KPX Q U -25
KPX Q T -40
KPX Q A -30

KPX R y -20
KPX R u -12
KPX R t -25
KPX R quoteright -10
KPX R quotedblright -10
KPX R o -12
KPX R e -18
KPXR a -6
KPXR Y -32
KPXR X 20
KPXR W -18
KPXR V -26
KPXR U -30
KPXR T -20
KPXR Q -10
KPXR O -10
KPXR G -10
KPXR C -10

KPXS y -35
KPXS w -30
KPXS v -40
KPXS u -24
KPXS t -24
KPXS r -10
KPXS quoteright -15
KPXS quotedblright -15
KPXS p -24
KPXS n -24
KPXS m -24
KPXS l -18
KPXS k -24
KPXS j -30
KPXS i -12
KPXS h -12
KPXS a -18

KPXT z -64
KPXT y -74
KPXT w -72
KPXT u -74
KPXT semicolon -50
KPXT s -82
KPXT r -74
KPXT quoteright 24
KPXT quotedblright 24
KPXT period -95
KPXT parenright 40
KPXT o -90
KPXT m -72
KPXT i -28
KPXT hyphen -110
KPXT endash -40
KPXT emdash -60
KPXT e -80
KPX Z C -18
KPX Z A 25

KPX a quotright -45
KPX a quotientright -40

KPX b y -15
KPX b w -20
KPX b v -20
KPX b quotright -45
KPX b quotientright -40
KPX b period -10
KPX b comma -10

KPX braceleft Y 64
KPX braceleft W 64
KPX braceleft V 64
KPX braceleft T 25
KPX braceleft J 50

KPX bracketleft Y 64
KPX bracketleft W 64
KPX bracketleft V 64
KPX bracketleft T 35
KPX bracketleft J 60

KPX c quotright -5

KPX colon space -20

KPX comma space -40
KPX comma quotright -100
KPX comma quotientright -100

KPX d quotright -24
KPX d quotientright -24

KPX e z -4
KPX e quotright -25
KPX e quotientright -20

KPX f quotesingle 70
KPX f quotright 68
KPX f quotientright 68
KPX f period -10
KPX f parenright 110
KPX f comma -20
KPX f bracketright 100
KPX f braceright 80
KPX g y 20
KPX g p 20
KPX g f 20
KPX g comma 10
KPX h quoteright -60
KPX h quotedblright -60
KPX i quoteright -20
KPX i quotedblright -20
KPX j quoteright -20
KPX j quotedblright -20
KPX j period -10
KPX j comma -10
KPX k quoteright -30
KPX k quotedblright -30
KPX l quoteright -24
KPX l quotedblright -24
KPX m quoteright -60
KPX m quotedblright -60
KPX n quoteright -60
KPX n quotedblright -60
KPX o z -12
KPX o y -25
KPX o x -18
KPX o w -30
KPX o v -30
KPX o quoteright -45
KPX o quotedblright -40
KPX o period -10
KPX o comma -10
KPX p z -10
KPX p y -15
KPX p w -15
KPX p quoteright -45
KPX p quotedblright -60
KPX p period -10
KPX p comma -10
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Version 1.1

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# Seaborn colorblind palette

```
axes.prop_cycle: cycler('color', ['0072B2', '009E73', 'D55E00', 'CC79A7', 'F0E442', '56B4E9'])
patch.facecolor: 0072B2
StartFontMetrics 2.0
Comment Creation Date: Mon Jul 2 22:14:17 1990
Comment UniqueID 31790
Comment VMusage 36445 47337
FontName Palatino-Roman
FullName Palatino Roman
FamilyName Palatino
Weight Roman
ItalicAngle 0
IsFixedPitch false
FontBBox -166 -283 1021 927
UnderlinePosition -100
UnderlineThickness 50
Version 001.005
```
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EncodingScheme AdobeStandardEncoding

CapHeight 692
XHeight 469
Ascender 726
Descender -281
StartCharMetrics 228
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 278 ; N exclaim ; B 81 -5 197 694 ;
C 34 ; WX 371 ; N quotedbl ; B 52 469 319 709 ;
C 35 ; WX 500 ; N numbersign ; B 4 0 495 684 ;
C 36 ; WX 500 ; N dollar ; B 30 -116 471 731 ;
C 37 ; WX 840 ; N percent ; B 39 -20 802 709 ;
C 38 ; WX 778 ; N ampersand ; B 43 -20 753 689 ;
C 39 ; WX 278 ; N quoteright ; B 45 446 233 709 ;
C 40 ; WX 333 ; N parenleft ; B 60 -215 301 726 ;
C 41 ; WX 333 ; N parenright ; B 32 -215 273 726 ;
C 42 ; WX 389 ; N asterisk ; B 32 342 359 689 ;
C 43 ; WX 606 ; N plus ; B 51 7 555 512 ;
C 44 ; WX 250 ; N comma ; B 16 -155 218 123 ;
C 45 ; WX 333 ; N hyphen ; B 17 215 312 287 ;
C 46 ; WX 250 ; N period ; B 67 -5 183 111 ;
C 47 ; WX 606 ; N slash ; B 87 -119 519 726 ;
C 48 ; WX 500 ; N zero ; B 29 -20 465 689 ;
C 49 ; WX 500 ; N one ; B 60 -3 418 694 ;
C 50 ; WX 500 ; N two ; B 16 -3 468 689 ;
C 51 ; WX 500 ; N three ; B 15 -20 462 689 ;
C 52 ; WX 500 ; N four ; B 2 -3 472 694 ;
C 53 ; WX 500 ; N five ; B 13 -20 459 689 ;
C 54 ; WX 500 ; N six ; B 32 -20 468 689 ;
C 55 ; WX 500 ; N seven ; B 44 -3 497 689 ;
C 56 ; WX 500 ; N eight ; B 30 -20 464 689 ;
C 57 ; WX 500 ; N nine ; B 20 -20 457 689 ;
C 58 ; WX 250 ; N colon ; B 66 -5 182 456 ;
C 59 ; WX 250 ; N semicolon ; B 16 -153 218 456 ;
C 60 ; WX 606 ; N less ; B 57 0 558 522 ;
C 61 ; WX 606 ; N equal ; B 51 136 555 386 ;
C 62 ; WX 606 ; N greater ; B 48 0 549 522 ;
C 63 ; WX 444 ; N question ; B 43 -5 395 694 ;
C 64 ; WX 747 ; N at ; B 24 -20 724 694 ;
C 65 ; WX 778 ; N A ; B 15 -3 756 700 ;
C 66 ; WX 611 ; N B ; B 26 -3 576 692 ;
C 67 ; WX 709 ; N C ; B 22 -20 670 709 ;
C 68 ; WX 774 ; N D ; B 22 -3 751 692 ;
C 69 ; WX 611 ; N E ; B 22 -3 572 692 ;
C 70 ; WX 556 ; N F ; B 22 -3 536 692 ;
C 71 ; WX 763 ; N G ; B 22 -20 728 709 ;
# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn white parameters
axes.grid: False
axes.facecolor: white
axes.edgecolor: .15
axes.linewidth: 1.25
grid.color: .8
xtick.major.size: 6
ytick.major.size: 6
xtick.minor.size: 3
ytick.minor.size: 3

2!$"2)*>>HTUF81%(5$/., 4$"!"$!"':
%:;H?8JA'&"#5#68731/+.01)#%$3*.)
*8XM;("%/6"9>:1)%!+60")&ET<$+
"$*)$
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C.B. Barber
Arlington, MA

and

The National Science and Technology Research Center for
Computation and Visualization of Geometric Structures
(The Geometry Center)
University of Minnesota

email: qhull@qhull.org

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# Seaborn talk context
figure.figsize: 10.4, 7.15
axes.labelsize: 14.3
axes.titlesize: 15.6
xtick.labelsize: 13
ytick.labelsize: 13
legend.fontsize: 13
grid.linewidth: 1.3
lines.linewidth: 2.275
patch.linewidth: 0.39
lines.markersize: 9.1
lines.markeredgewidth: 0

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xtick.major.pad: 9.1
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# Seaborn common parameters
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#.8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
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legend.scatterpoints: 1
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xtick.color: .15
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axes.axisbelow: True
image.cmap: Greys
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font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn white parameters
axes.grid: False
axes.facecolor: white
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axes.linewidth: 1.25
grid.color: .8
xtick.major.size: 0
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ytick.minor.size: 0

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Comment VMusage 14960 69346
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FullName Helvetica Oblique
FamilyName Helvetica
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FontBBox -170 -225 1116 931
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme AdobeStandardEncoding
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XHeight 523
Ascender 718
Descender -207
StdHW 76
StdVW 88
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C 35 ; WX 556 ; N numbersign ; B 73 0 631 688 ;
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EndKernData
EndFontMetrics
StartFontMetrics 2.0
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Comment Creation Date: Tue Sep 17 07:47:21 1991
Comment UniqueID 36347
Comment VMusage 31037 39405
FontName Courier
FullName Courier
FamilyName Courier
Weight Medium
ItalicAngle 0
IsFixedPitch true
FontBBox -28 -250 628 805
UnderlinePosition -100
UnderlineThickness 50
Version 002.004
Notice Copyright (c) 1989, 1990, 1991 Adobe Systems Incorporated. All rights reserved.
EncodingScheme AdobeStandardEncoding
CapHeight 562
XHeight 426
Ascender 629
Descender -157
StartCharMetrics 260
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C 33 ; WX 600 ; N exclaim ; B 236 -15 364 572 ;
C 34 ; WX 600 ; N quotedbl ; B 187 328 413 562 ;
C 35 ; WX 600 ; N numbersign ; B 93 -32 507 639 ;
C 36 ; WX 600 ; N dollar ; B 105 -126 496 662 ;
C 37 ; WX 600 ; N percent ; B 81 -15 518 622 ;
C 38 ; WX 600 ; N ampersand ; B 63 -15 538 543 ;
C 39 ; WX 600 ; N quoteright ; B 213 328 376 562 ;
C 40 ; WX 600 ; N parenleft ; B 269 -108 440 622 ;
C 41 ; WX 600 ; N parenright ; B 160 -108 331 622 ;
C 42 ; WX 600 ; N asterisk ; B 116 257 484 607 ;
C 43 ; WX 600 ; N plus ; B 80 44 520 470 ;
C 44 ; WX 600 ; N comma ; B 181 -112 344 122 ;
C 45 ; WX 600 ; N hyphen ; B 103 231 497 285 ;
C 46 ; WX 600 ; N period ; B 229 -15 371 109 ;
C 47 ; WX 600 ; N slash ; B 125 -80 475 629 ;
C 48 ; WX 600 ; N zero ; B 106 -15 500 622 ;
C 49 ; WX 600 ; N one ; B 96 0 505 622 ;
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C 53 ; WX 600 ; N five ; B 92 -15 497 607 ;
C 54 ; WX 600 ; N six ; B 111 -15 497 622 ;
C 55 ; WX 600 ; N seven ; B 82 0 483 607 ;
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C 58 ; WX 600 ; N colon ; B 229 -15 371 385 ;
C 59 ; WX 600 ; N semicolon ; B 181 -112 371 385 ;
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# Note: strings of float values are interpreted by matplotlib as gray values.

lines.color: black
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patch.edgecolor: black
text.color: black

axes.facecolor: white
axes.edgecolor: black
axes.labelcolor: black
# black to light gray
axes.prop_cycle: cycler('color', ['0.00', '0.40', '0.60', '0.70'])

xtick.color: black
ytick.color: black

grid.color: black

figure.facecolor: 0.75
figure.edgecolor: white

image.cmap: gray

savefig.facecolor: white
savefig.edgecolor: white
Open Source Used In SVO 12.3.0 8240
Comment The following are bogus kern pairs for TeX positioning of accents

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KPX Gamma period -111.111
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KPX Delta tie 166.667
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KPX chi tie 55.556
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StartKernData

StartKernPairs 26

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- **KPX Z prime 138.89**
- **EndKernPairs**
- **EndKernData**
- **EndFontMetrics**

**Open Source Used in SVO 12.3.0 8273**
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Module creating PyQt4 form dialogs/layouts to edit various type of parameters

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# a small set of changes that will make your plotting FAST (1).
#
# (1) in some cases

# Maximally simplify lines.
path.simplify: True
path.simplify_threshold: 1.0

# chunk up large lines into smaller lines!
# simple trick to avoid those pesky O(>n) algorithms!
agg.path.chunksize: 10000
# This patch should go on top of the "classic" style and exists solely to avoid
# changing baseline images.

text.kerning_factor : 6

ytick.alignment: center_baseline
# Seaborn dark palette
axes.prop_cycle: cycler('color', ['001C7F', '017517', '8C0900', '7600A1', 'B8860B', '006374'])
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fullName Palatino Italic
familyname Palatino
weight medium
italicangle -10
isfixedpitch false
fontbbox -170 -276 1010 918
ulineposition -100
ulinethickness 50
version 001.005
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xheight 482
ascender 733
descender -276
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C 33 ; WX 333 ; N exclam ; B 76 -8 292 733 ;
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Version 001.007


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Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.
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KPX K y -40
KPX K u -30
KPX K o -35
KPX K e -15
KPX K O -30

KPX L y -30
KPX L quotel -140
KPX L quotedbl -140
KPX L Y -120
KPX L W -80
KPX L V -110
KPX L T -90

KPX O period -40
KPX O comma -40
KPX O Y -70
KPX O X -50
KPX O W -50
KPX O V -50
KPX O T -40
KPX O A -50

KPX P period -120
KPX P o -40
KPX P e -30
KPX P comma -120
KPX P a -30
KPX P A -100

KPX Q period 20
KPX Q comma 20
KPX Q U -10

KPX R Y -50
KPX R W -40
KPX R V -50
KPX R U -20
KPX R T -20
KPX R O -20

KPX T y -60
KPX T w -60
KPX T u -90
KPX T semicolon -40
KPX T r -80
KPX T period -80
KPX T o -80
KPX T hyphen -120
KPX T e -60
KPX T comma -80
KPX T colon -40
KPX T a -80
KPX T O -40
KPX T A -90

KPX U period -30
KPX U comma -30
KPX U A -50

KPX V u -60
KPX V semicolon -40
KPX V period -120
KPX V o -90
KPX V hyphen -80
KPX V e -50
KPX V comma -120
KPX V colon -40
KPX V a -60
KPX V O -50
KPX V G -50
KPX V A -80

KPX W y -20
KPX W u -45
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 186 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 186 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 186 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 186 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 186 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 215 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 167 186 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 167 186 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 167 186 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 167 186 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -27 186 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -27 186 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -27 186 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -27 186 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 195 186 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 186 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 186 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 186 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 186 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 186 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 167 186 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 195 186 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 195 186 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 195 186 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 195 186 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 139 186 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 139 186 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 186 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 112 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 112 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 112 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 132 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 112 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 112 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 112 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 112 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -27 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -27 0 ;
CC iggrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 139 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 139 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 139 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 139 0 ;
CC otile 2 ; PCC o 0 0 ; PCC tilde 139 0 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 112 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 139 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 139 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 112 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 112 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 0 ;
EndComposites
EndFontMetrics
StartFontMetrics 2.0
Comment Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Thu Mar 15 11:04:57 1990
Comment UniqueID 28380
Comment VMusage 7572 42473
FontName Helvetica-Narrow
FullName Helvetica Narrow
FamilyName Helvetica
Weight Medium
ItalicAngle 0
IsFixedPitch false
FontBBox -136 -225 820 931
UnderlinePosition -100
UnderlineThickness 50
Version 001.006
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All rights reserved. Helvetica is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 523
Ascender 718
Descender -207
StartCharMetrics 228
C 32 ; WX 228 ; N space ; B 0 0 0 0 ;
C 33 ; WX 228 ; N exclam ; B 74 0 153 718 ;
C 34 ; WX 291 ; N quotedbl ; B 57 463 234 718 ;
C 35 ; WX 456 ; N numbersign ; B 23 0 434 688 ;
C 36 ; WX 456 ; N dollar ; B 26 -115 426 775 ;
C 37 ; WX 729 ; N percent ; B 32 -19 697 703 ;
C 38 ; WX 547 ; N ampersand ; B 36 -15 529 718 ;
C 39 ; WX 182 ; N quoteright ; B 43 463 129 718 ;
C 40 ; WX 273 ; N parenleft ; B 56 -207 245 733 ;
C 41 ; WX 273 ; N parenright ; B 28 -207 217 733 ;
 KPX C period -24
 KPX C comma -24

 KPX D period -56
 KPX D comma -56
 KPX D Y -73
 KPX D W -32
 KPX D V -56
 KPX D A -32

 KPX F r -36
 KPX F period -122
 KPX F o -24
 KPX F e -24
 KPX F comma -122
 KPX F a -40
 KPX F A -65

 KPX J u -15
 KPX J period -24
 KPX J comma -24
 KPX J a -15
 KPX J A -15

 KPX K y -40
 KPX K u -24
 KPX K o -32
 KPX K e -32
 KPX K O -40

 KPX L y -24
 KPX L quoterright -130
 KPX L quotedblright -114
 KPX L Y -114
 KPX L W -56
 KPX L V -89
 KPX L T -89

 KPX O period -32
 KPX O comma -32
 KPX O Y -56
 KPX O X -48
 KPX O W -24
 KPX O V -40
 KPX O T -32
 KPX O A -15

 KPX P period -147
KPX P o -40
KPX P e -40
KPX P comma -147
KPX P a -32
KPX P A -97

KPX Q U -7

KPX R Y -40
KPX R W -24
KPX R V -40
KPX R U -32
KPX R T -24
KPX R O -15

KPX S period -15
KPX S comma -15

KPX T y -97
KPX T w -97
KPX T u -97
KPX T semicolon -15
KPX T r -97
KPX T period -97
KPX T o -97
KPX T hyphen -114
KPX T e -97
KPX T comma -97
KPX T colon -15
KPX T a -97
KPX T O -32
KPX T A -97

KPX U period -32
KPX U comma -32
KPX U A -32

KPX V u -56
KPX V semicolon -32
KPX V period -102
KPX V o -65
KPX V hyphen -65
KPX V e -65
KPX V comma -102
KPX V colon -32
KPX V a -56
KPX V O -32
KPX V G -32
KPX r a -7

KPX s w -24
KPX s period -11
KPX s comma -11

KPX semicolon space -40

KPX space quotefrak -48
KPX space quotecorner -24
KPX space Y -73
KPX space W -32
KPX space V -40
KPX space T -40

KPX v period -65
KPX v o -20
KPX v e -20
KPX v comma -65
KPX v a -20

KPX w period -48
KPX w o -7
KPX w e -7
KPX w comma -48
KPX w a -11

KPX x e -24

KPX y period -81
KPX y o -15
KPX y e -15
KPX y comma -81
KPX y a -15

KPX z o -11
KPX z e -11
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 137 195 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 137 195 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 137 195 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 137 195 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 137 175 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 137 195 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 160 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 137 195 ;
# Seaborn notebook context
figure.figsize: 8.0, 5.5
axes.labelsize: 11
axes.titlesize: 12
xtick.labelsize: 10
ytick.labelsize: 10
legend.fontsize: 10
grid.linewidth: 1
lines.linewidth: 1.75
patch.linewidth: .3
lines.markersize: 7
lines.markeredgewidth: 0

xtick.major.width: 1
ytick.major.width: 1
xtick.minor.width: .5
ytick.minor.width: .5

xtick.major.pad: 7
ytick.major.pad: 7
StartFontMetrics 2.0
Comment Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved.
Comment Creation Date: Fri Jan 17 15:47:44 1992
Comment UniqueID 37716
Comment VMusage 34427 41319
FontName Utopia-BoldItalic
FullName Utopia Bold Italic
FamilyName Utopia
Weight Bold
ItalicAngle -13
IsFixedPitch false
FontBBox -176 -250 1262 916
UnderlinePosition -100
UnderlineThickness 50
Version 001.002
Notice Copyright (c) 1989, 1991 Adobe Systems Incorporated. All Rights Reserved. Utopia is a registered trademark of Adobe Systems Incorporated.
EncodingScheme AdobeStandardEncoding
CapHeight 692
XHeight 502
Ascender 742
Descender -242
StartCharMetrics 228
KPX F period -120
KPX F o -24
KPX F i -6
KPX F e -24
KPX F comma -110
KPX F a -30
KPX F A -45

KPX G y -25
KPX G u -22
KPX G r -22
KPX G quoteright -30
KPX G quotedblright -30
KPX G n -22
KPX G l -24
KPX G i -12
KPX G h -18
KPX G e 5

KPX H y -18
KPX H u -30
KPX H o -25
KPX H i -25
KPX H e -25
KPX H a -25

KPX I z -20
KPX I y -6
KPX I x -6
KPX I w -30
KPX I v -30
KPX I u -30
KPX I t -18
KPX I s -18
KPX I r -12
KPX I p -18
KPX I o -25
KPX I n -18
KPX I m -18
KPX I l -6
KPX I k -6
KPX I j -20
KPX I i -10
KPX I g -24
KPX I f -6
KPX I e -25
KPX I d -15
KPX I c -25
KPX R Q -8
KPX R O -8
KPX R G -8
KPX R C -8
KPX R A 15

KPX S y -30
KPX S w -30
KPX S v -20
KPX S u -18
KPX S t -18
KPX S r -20
KPX S quoteright -38
KPX S quotedblright -50
KPX S p -18
KPX S n -24
KPX S m -24
KPX S l -20
KPX S k -18
KPX S j -25
KPX S i -20
KPX S h -12
KPX S e -6

KPX T z -48
KPX T y -52
KPX T w -54
KPX T u -54
KPX T semicolon -6
KPX T s -60
KPX T r -54
KPX T quoteright 36
KPX T quotedblright 36
KPX T period -70
KPX T parenright 25
KPX T o -78
KPX T m -54
KPX T i -22
KPX T hyphen -100
KPX T h 6
KPX T endash -40
KPX T emdash -40
KPX T e -78
KPX T comma -90
KPX T bracketright 20
KPX T braceright 30
KPX T a -78
KPX T Y 12
KPX T X 18
KPX T W 30
KPX T V 20
KPX T T 40
KPX T Q -6
KPX T O -6
KPX T G -6
KPX T C -6
KPX T A -40

KPX U z -18
KPX U x -30
KPX U v -20
KPX U t -24
KPX U s -40
KPX U r -30
KPX U p -30
KPX U n -30
KPX U m -30
KPX U l -12
KPX U k -12
KPX U i -24
KPX U h -6
KPX U g -30
KPX U f -10
KPX U d -30
KPX U c -30
KPX U b -6
KPX U a -30
KPX U A -40

KPX V y -34
KPX V u -42
KPX V semicolon -45
KPX V r -55
KPX V quoteright 46
KPX V quotedblright 60
KPX V period -110
KPX V parenright 64
KPX V o -55
KPX V i 15
KPX V hyphen -60
KPX V endash -20
KPX V emdash -20
KPX V e -55
KPX V comma -110
KPX V colon -18
KPX V bracketright 64
KPX a quoteright -54
KPX a quotedblright -54

KPX b y -6
KPX b w -5
KPX b v -5
KPX b quoteright -30
KPX b quotedblright -30
KPX b period -15
KPX b comma -15

KPX braceleft Y 64
KPX braceleft W 64
KPX braceleft V 64
KPX braceleft T 40
KPX braceleft J 60

KPX bracketleft Y 60
KPX bracketleft W 64
KPX bracketleft V 64
KPX bracketleft T 35
KPX bracketleft J 30

KPX c quoteright 5
KPX c quotedblright 5

KPX colon space -30

KPX comma space -40
KPX comma quoteright -100
KPX comma quotedblright -100

KPX d quoteright -12
KPX d quotedblright -12
KPX d period 15
KPX d comma 15

KPX e y 6
KPX e x -10
KPX e w -10
KPX e v -10
KPX e quoteright -25
KPX e quotedblright -25

KPX f quoteright 120
KPX f quotedblright 120
KPX f period -30
KPX f parenright 100
KPX v comma -62
KPX v c -6
KPX v a -6

KPX w quotedright -10
KPX w quotedblright -10
KPX w period -40
KPX w comma -50

KPX x y 12
KPX x w -6
KPX x quotedright -30
KPX x quotedblright -30
KPX x q -6
KPX x o -6
KPX x e -6
KPX x d -6
KPX x c -6

KPX y quotedright -10
KPX y quotedblright -10
KPX y q -10
KPX y period -56
KPX y d -10
KPX y comma -56

KPX z quotedright -40
KPX z quotedblright -40
KPX z o -6
KPX z e -6
KPX z d -6
KPX z c -6
EndKernPairs
EndKernData
EndFontMetrics
StartFontMetrics 4.1
Comment Creation Date: Thu May 1 17:37:52 1997
Comment UniqueID 43051
Comment VMusage 16248 75829
FontName Courier-Oblique
FullName Courier Oblique
FamilyName Courier
Weight Medium
ItalicAngle -12
IsFixedPitch true
CharacterSet ExtendedRoman
FontBBox -27 -250 849 805
Open Source Used In SVO 12.3.0 8354
FamilyName ITC Bookman
Weight Light
ItalicAngle -10
IsFixedPitch false
FontBBox -228 -250 1269 883
UnderlinePosition -100
UnderlineThickness 50
Version 001.004
Notice Copyright (c) 1985, 1987, 1989, 1992 Adobe Systems Incorporated. All Rights Reserved. ITC Bookman is a registered trademark of International Typeface Corporation.
EncodingScheme AdobeStandardEncoding
CapHeight 681
XHeight 494
Ascender 717
Descender -212
StartCharMetrics 228
C 32 ; WX 300 ; N space ; B 0 0 0 0 ;
C 33 ; WX 320 ; N exclam ; B 103 -8 342 698 ;
C 34 ; WX 360 ; N quotedbl ; B 107 468 402 698 ;
C 35 ; WX 620 ; N numbersign ; B 107 0 598 681 ;
C 36 ; WX 620 ; N dollar ; B 78 -85 619 762 ;
C 37 ; WX 800 ; N percent ; B 56 -8 811 691 ;
C 38 ; WX 820 ; N ampersand ; B 65 -18 848 698 ;
C 39 ; WX 280 ; N quoteright ; B 148 470 288 698 ;
C 40 ; WX 280 ; N parenleft ; B 96 -146 383 727 ;
C 41 ; WX 280 ; N parenright ; B -8 -146 279 727 ;
C 42 ; WX 440 ; N asterisk ; B 139 324 505 698 ;
C 43 ; WX 600 ; N plus ; B 91 43 595 548 ;
C 44 ; WX 300 ; N comma ; B 88 -115 227 112 ;
C 45 ; WX 320 ; N hyphen ; B 78 269 336 325 ;
C 46 ; WX 300 ; N period ; B 96 -8 231 127 ;
C 47 ; WX 600 ; N slash ; B 104 -149 562 717 ;
C 48 ; WX 620 ; N zero ; B 86 -17 646 698 ;
C 49 ; WX 620 ; N one ; B 154 0 500 681 ;
C 50 ; WX 620 ; N two ; B 66 0 636 698 ;
C 51 ; WX 620 ; N three ; B 55 -17 622 698 ;
C 52 ; WX 620 ; N four ; B 69 0 634 681 ;
C 53 ; WX 620 ; N five ; B 70 -17 614 681 ;
C 54 ; WX 620 ; N six ; B 89 -17 657 698 ;
C 55 ; WX 620 ; N seven ; B 143 0 672 681 ;
C 56 ; WX 620 ; N eight ; B 61 -17 655 698 ;
C 57 ; WX 620 ; N nine ; B 77 -17 649 698 ;
C 58 ; WX 300 ; N colon ; B 96 -8 292 494 ;
C 59 ; WX 300 ; N semicolon ; B 88 -114 292 494 ;
C 60 ; WX 600 ; N less ; B 79 33 588 561 ;
C 61 ; WX 600 ; N equal ; B 91 161 595 433 ;
C 62 ; WX 600 ; N greater ; B 93 33 602 561 ;
C 63 ; WX 540 ; N question ; B 114 -8 604 698 ;
C 64 ; WX 780 ; N at ; B 102 -17 802 698 ;
C 65 ; WX 700 ; N A ; B -25 0 720 681 ;
C 66 ; WX 720 ; N B ; B 21 0 746 681 ;
C 67 ; WX 720 ; N C ; B 88 -17 746 698 ;
C 68 ; WX 740 ; N D ; B 21 0 782 681 ;
C 69 ; WX 680 ; N E ; B 21 0 736 681 ;
C 70 ; WX 620 ; N F ; B 21 0 743 681 ;
C 71 ; WX 760 ; N G ; B 88 -17 813 698 ;
C 72 ; WX 800 ; N H ; B 21 0 888 681 ;
C 73 ; WX 320 ; N I ; B 21 0 656 681 ;
C 74 ; WX 560 ; N J ; B -2 -17 666 681 ;
C 75 ; WX 720 ; N K ; B 21 0 804 681 ;
C 76 ; WX 580 ; N L ; B 21 0 656 681 ;
C 77 ; WX 860 ; N M ; B 18 0 956 681 ;
C 78 ; WX 720 ; N N ; B 18 0 823 681 ;
C 79 ; WX 760 ; N O ; B 88 -17 799 698 ;
C 80 ; WX 600 ; N P ; B 21 0 681 681 ;
C 81 ; WX 780 ; N Q ; B 61 -191 812 698 ;
C 82 ; WX 700 ; N R ; B 21 0 736 681 ;
C 83 ; WX 640 ; N S ; B 61 -17 668 698 ;
C 84 ; WX 600 ; N T ; B 50 0 725 681 ;
C 85 ; WX 720 ; N U ; B 118 -17 842 681 ;
C 86 ; WX 680 ; N V ; B 87 0 815 681 ;
C 87 ; WX 960 ; N W ; B 87 0 1095 681 ;
C 88 ; WX 700 ; N X ; B -25 0 815 681 ;
C 89 ; WX 660 ; N Y ; B 87 0 809 681 ;
C 90 ; WX 580 ; N Z ; B 8 0 695 681 ;
C 91 ; WX 260 ; bracketleft ; B 56 -136 351 717 ;
C 92 ; WX 600 ; N backslash ; B 84 0 542 717 ;
C 93 ; WX 260 ; N bracketright ; B 15 -136 320 717 ;
C 94 ; WX 600 ; N asciicircum ; B 97 276 517 681 ;
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;
C 96 ; WX 280 ; N quoteleft ; B 191 470 330 698 ;
C 97 ; WX 620 ; N a ; B 71 -8 686 494 ;
C 98 ; WX 600 ; N b ; B 88 -8 621 717 ;
C 99 ; WX 480 ; N c ; B 65 -8 522 494 ;
C 100 ; WX 640 ; N d ; B 65 -8 695 717 ;
C 101 ; WX 540 ; N e ; B 65 -8 575 494 ;
C 102 ; WX 340 ; N f ; B -160 -218 557 725 ;
C 103 ; WX 560 ; N g ; B 4 -221 581 494 ;
C 104 ; WX 620 ; N h ; B 88 -8 689 717 ;
C 105 ; WX 280 ; N i ; B 88 -8 351 663 ;
C 106 ; WX 280 ; N j ; B -200 -221 308 663 ;
C 107 ; WX 600 ; N k ; B 88 -8 657 717 ;
C 108 ; WX 280 ; N l ; B 100 -8 342 717 ;
C 109 ; WX 880 ; N m ; B 88 -8 952 494 ;
C 110 ; WX 620 ; N n ; B 88 -8 673 494 ;
C 111 ; WX 540 ; N o ; B 65 -8 572 494 ;
C -1 ; WX 540 ; N eth ; B 65 -8 642 725 ;
C -1 ; WX 540 ; N odieresis ; B 65 -8 572 688 ;
C -1 ; WX 740 ; N copyright ; B 84 -17 784 698 ;
C -1 ; WX 600 ; N brokenbar ; B 294 -175 372 675 ;
EndCharMetrics
StartKernData
StartKernPairs 85

KPX A Y -62
KPX A W -73
KPX A V -78
KPX A T -5

KPX F period -97
KPX F comma -98
KPX F A -16

KPX L y 20
KPX L Y 7
KPX L W 9
KPX L V 4

KPX P period -105
KPX P comma -106
KPX P A -30

KPX R Y 11
KPX R W 2
KPX R V 2
KPX R T 65

KPX T semicolon 48
KPX T s -7
KPX T r 67
KPX T period -78
KPX T o 14
KPX T i 71
KPX T hyphen 20
KPX T e 10
KPX T comma -79
KPX T colon 48
KPX T c 16
KPX T a 9
KPX T A -14

KPX V y -14
KPX V u -10
KPX V semicolon -44
KPX r h -20
KPX r g -3
KPX r f -9
KPX r e -15
KPX r d -9
KPX r comma -143
KPX r c -8
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 200 177 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 130 177 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 140 177 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 177 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 220 177 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 130 177 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 210 177 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 140 177 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 150 177 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 150 177 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 30 177 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -30 177 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -20 177 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -30 177 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 177 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 177 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 190 177 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 200 177 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 210 177 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 190 177 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 100 177 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 230 177 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 170 177 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 180 177 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 170 177 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 200 177 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 140 177 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 70 177 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 120 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 70 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 80 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 110 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 140 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 60 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 90 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 30 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 40 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 80 0 ;
C -1 ; WX 380 ; N onesuperior ; B 81 272 307 680 ;
C -1 ; WX 570 ; N minus ; B 43 221 527 279 ;
C -1 ; WX 350 ; N degree ; B 37 404 313 680 ;
C -1 ; WX 577 ; N oacute ; B 49 -12 528 723 ;
C -1 ; WX 762 ; N Odieresis ; B 48 -15 714 841 ;
C -1 ; WX 577 ; N odieresis ; B 49 -12 528 683 ;
C -1 ; WX 606 ; N Ecircumflex ; B 35 0 577 890 ;
C -1 ; WX 606 ; N ucircumflex ; B 26 -12 591 720 ;
C -1 ; WX 860 ; N onequarter ; B 65 -27 795 695 ;
C -1 ; WX 570 ; N logicalnot ; B 43 102 527 389 ;
C -1 ; WX 606 ; N Ecircumflex ; B 35 0 577 876 ;
C -1 ; WX 860 ; N onehalf ; B 58 -27 807 695 ;
C -1 ; WX 762 ; N Otilde ; B 48 -15 714 842 ;
C -1 ; WX 606 ; N uacute ; B 26 -12 591 723 ;
C -1 ; WX 514 ; N eacute ; B 49 -12 481 723 ;
C -1 ; WX 291 ; N iacute ; B 32 0 317 723 ;
C -1 ; WX 606 ; N Egrave ; B 35 0 577 890 ;
C -1 ; WX 291 ; N icircumflex ; B -3 0 304 720 ;
C -1 ; WX 606 ; N mu ; B 26 -246 591 502 ;
C -1 ; WX 228 ; N brokenbar ; B 80 -175 148 675 ;
C -1 ; WX 606 ; N thorn ; B 23 -230 557 722 ;
C -1 ; WX 627 ; N Aring ; B -32 0 647 861 ;
C -1 ; WX 506 ; N yacute ; B -5 -242 528 723 ;
C -1 ; WX 588 ; N Ydieresis ; B -12 0 632 841 ;
C -1 ; WX 1100 ; N trademark ; B 45 277 1048 692 ;
C -1 ; WX 818 ; N registered ; B 45 -15 773 707 ;
C -1 ; WX 577 ; N otilde ; B 49 -12 528 720 ;
C -1 ; WX 635 ; N Agrave ; B -29 0 650 890 ;
C -1 ; WX 541 ; N Scaron ; B 50 -15 504 882 ;
C -1 ; WX 791 ; N Ugrave ; B 29 -15 762 890 ;
C -1 ; WX 606 ; N Edieresis ; B 35 0 577 841 ;
C -1 ; WX 791 ; N Uacute ; B 29 -15 762 890 ;
C -1 ; WX 577 ; N otilde ; B 49 -12 528 682 ;
C -1 ; WX 619 ; N ntilde ; B 32 0 604 682 ;
C -1 ; WX 506 ; N ydieresis ; B -5 -242 528 683 ;
C -1 ; WX 635 ; N Aacute ; B -29 0 650 890 ;
C -1 ; WX 577 ; N eth ; B 49 -12 528 742 ;
C -1 ; WX 523 ; N acircumflex ; B 49 -12 525 720 ;
C -1 ; WX 523 ; N aring ; B 49 -12 525 752 ;
C -1 ; WX 762 ; N Ograve ; B 48 -15 714 890 ;
C -1 ; WX 496 ; N ccedilla ; B 49 -230 473 502 ;
C -1 ; WX 570 ; N multiply ; B 63 22 507 478 ;
C -1 ; WX 570 ; N divide ; B 43 26 527 474 ;
C -1 ; WX 380 ; N twosuperior ; B 32 272 348 680 ;
C -1 ; WX 780 ; N Ntilde ; B 34 0 753 842 ;
C -1 ; WX 606 ; N ugrave ; B 26 -12 591 723 ;
C -1 ; WX 791 ; N Ucircumflex ; B 29 -15 762 876 ;
C -1 ; WX 635 ; N Atild ; B -29 0 650 842 ;
KPX G y -18
KPX G u -12
KPX G r -5
KPX G o 5
KPX G n -5
KPX G l -6
KPX G i -12
KPX G h -12
KPX G e 5
KPX G a -12

KPX H y -24
KPX H u -26
KPX H o -30
KPX H i -18
KPX H e -30
KPX H a -24

KPX I z -6
KPX I y -6
KPX I x -6
KPX I w -18
KPX I v -24
KPX I u -26
KPX I t -24
KPX I s -18
KPX I r -12
KPX I p -26
KPX I o -30
KPX I n -18
KPX I m -18
KPX I l -6
KPX I k -6
KPX I h -6
KPX I g -10
KPX I f -6
KPX I e -30
KPX I d -30
KPX I c -30
KPX I b -6
KPX I a -24

KPX J y -12
KPX J u -36
KPX J o -30
KPX J i -20
KPX J e -30
KPX J bracketright 20
KPX N i -24
KPX N e -30
KPX N a -30

KPX O z -6
KPX O u -6
KPX O t -6
KPX O s -6
KPX O q -6
KPX O period -60
KPX O p -6
KPX O o -6
KPX O n -5
KPX O m -5
KPX O l -6
KPX O k -6
KPX O i -5
KPX O h -12
KPX O g -6
KPX O e -6
KPX O d -6
KPX O comma -50
KPX O c -6
KPX O a -12
KPX O Y -55
KPX O X -24
KPX O W -30
KPX O V -18
KPX O T -30
KPX O A -18

KPX P u -12
KPX P t -6
KPX P s -24
KPX P r -12
KPX P period -200
KPX P o -30
KPX P n -12
KPX P I -6
KPX P hyphen -40
KPX P h -6
KPX P e -30
KPX P comma -200
KPX P a -36
KPX P I -6
KPX P H -12
KPX P E -6
KPX P A -55
KPX Y W 12
KPX Y V 12
KPX Y T 12
KPX Y Q -18
KPX Y O -18
KPX Y G -18
KPX Y C -18
KPX Y A -32

KPX Z y -36
KPX Z w -36
KPX Z u -6
KPX Z o -12
KPX Z i -12
KPX Z e -6
KPX Z a -6
KPX Z Q -20
KPX Z O -20
KPX Z G -30
KPX Z C -20
KPX Z A 20

KPX a quotright -70
KPX a quotdbright -80

KPX b y -25
KPX b w -30
KPX b v -35
KPX b quotright -70
KPX b quotdbright -70
KPX b period -40
KPX b comma -40

KPX bracet Y 64
KPX bracet W 64
KPX bracet V 64
KPX bracet T 54
KPX bracet J 80

KPX bracket Y 64
KPX bracket W 64
KPX bracket V 64
KPX bracket T 54
KPX bracket J 80

KPX c quotright -28
KPX c quotdbright -28
KPX c period -10
C -1 ; WX 500 ; N eth ; B 25 -14 476 691 ;
C -1 ; WX 722 ; N Adieresis ; B 9 0 689 877 ;
C -1 ; WX 722 ; N Yacute ; B 15 0 699 928 ;
C -1 ; WX 220 ; N brokenbar ; B 66 -19 154 691 ;
C -1 ; WX 750 ; N onehalf ; B -7 -12 775 688 ;
EndCharMetrics
StartKernData
StartKernPairs 283

KPX A y -74
KPX A w -90
KPX A v -100
KPX A u -50
KPX A quoteright -74
KPX A quotedblright 0
KPX A p -25
KPX A Y -100
KPX A W -130
KPX A V -145
KPX A U -50
KPX A T -95
KPX A Q -45
KPX A O -45
KPX A G -55
KPX A C -55

KPX B period 0
KPX B comma 0
KPX B U -10
KPX B A -30

KPX D period -20
KPX D comma 0
KPX D Y -40
KPX D W -40
KPX D V -40
KPX D A -35

KPX F r 0
KPX F period -110
KPX F o -25
KPX F i 0
KPX F e -25
KPX F comma -92
KPX F a -25
KPX F A -90

KPX G period 0
KPX R Y -35
KPX R W -35
KPX R V -55
KPX R U -30
KPX R T -40
KPX R O -30
KPX S period 0
KPX S comma 0

KPX T y -74
KPX T w -74
KPX T u -92
KPX T semicolon -74
KPX T r -74
KPX T period -90
KPX T o -92
KPX T i -18
KPX T hyphen -92
KPX T h 0
KPX T e -92
KPX T comma -74
KPX T colon -74
KPX T a -92
KPX T O -18
KPX T A -90

KPX U period -50
KPX U comma -50
KPX U A -60

KPX V u -92
KPX V semicolon -92
KPX V period -145
KPX V o -100
KPX V i -37
KPX V hyphen -74
KPX V e -100
KPX V comma -129
KPX V colon -92
KPX V a -92
KPX V O -45
KPX V G -30
KPX V A -135

KPX W y -60
KPX W u -50
KPX W semicolon -55
KPX k y -15
KPX k o -15
KPX k e -10

KPX l y 0
KPX l w 0

KPX m y 0
KPX m u 0

KPX n y 0
KPX n v -40
KPX n u 0

KPX o y 0
KPX o x 0
KPX o w -10
KPX o v -10
KPX o g 0

KPX p y 0

KPX period quotedright -55
KPX period quotedblright -55

KPX quotedblleft quoteleft 0
KPX quotedblleft A -10

KPX quotedblright space 0

KPX quoteleft quoteleft -63
KPX quoteleft A -10

KPX quotedright v -20
KPX quotedright t 0
KPX quotedright space -74
KPX quotedright s -37
KPX quotedright r -20
KPX quotedright quotedright -63
KPX quotedright quotedblright 0
KPX quotedright l 0
KPX quotedright d -20

KPX r y 0
KPX r v -10
KPX r u 0
KPX r t 0
KPX y a 0

KPX z o 0
KPX z e 0

EndKernPairs
EndKernData

StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 188 210 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 188 210 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 188 210 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 188 210 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 180 195 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 188 210 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 208 0 ;
CC Ecute 2 ; PCC E 0 0 ; PCC acute 174 210 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 174 210 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 174 210 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 174 210 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 28 210 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 28 210 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 210 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 210 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 195 210 ;
CC Ocute 2 ; PCC O 0 0 ; PCC acute 223 210 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 210 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 210 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 210 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 210 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 112 210 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 222 210 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 222 210 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 222 210 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 222 210 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 210 215 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 215 210 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 167 210 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 77 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 77 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 77 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 77 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 77 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 77 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 69 0 ;
CC ecute 2 ; PCC e 0 0 ; PCC acute 62 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 62 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 62 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 62 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -34 0 ;
This is the sample data needed for some of matplotlib's examples and docs. See matplotlib.cbook.get_sample_data for more info.

https://github.com/altercation/solarized/blob/master/LICENSE

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# Seaborn muted palette
axes.prop_cycle: cycler('color', ['4878CF', '6ACC65', 'D65F5F', 'B47CC7', 'C4AD66', '77BEDB'])
patch.facecolor: 4878CF
StartFontMetrics 4.1
Comment Creation Date: Thu May  1 15:14:13 1997
Comment UniqueID 43082
Comment VMusage 45775 55535
FontName ZapfDingbats
FullName ITC Zapf Dingbats
FamilyName ZapfDingbats
Weight Medium
ItalicAngle 0
IsFixedPitch false
CharacterSet Special
FontBBox -1 -143 981 820
UnderlinePosition -100
UnderlineThickness 50
Version 002.000
EncodingScheme FontSpecific
StdHW 28
StdVW 90
StartCharMetrics 202
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
C 33 ; WX 974 ; N a1 ; B 35 72 939 621 ;
C 34 ; WX 961 ; N a2 ; B 35 81 927 611 ;
C 35 ; WX 974 ; N a202 ; B 35 72 939 621 ;
C 36 ; WX 980 ; N a3 ; B 35 0 945 692 ;
C 37 ; WX 719 ; N a4 ; B 34 139 685 566 ;
C 38 ; WX 789 ; N a5 ; B 35 -14 755 705 ;
C 39 ; WX 790 ; N a119 ; B 35 -14 755 705 ;
C 40 ; WX 791 ; N a118 ; B 35 -13 761 705 ;
C 41 ; WX 690 ; N a117 ; B 34 138 655 553 ;
C 42 ; WX 960 ; N a11 ; B 35 123 925 568 ;
C 43 ; WX 939 ; N a12 ; B 35 134 904 559 ;
C 44 ; WX 549 ; N a13 ; B 29 -11 516 705 ;
C 45 ; WX 855 ; N a14 ; B 34 59 820 632 ;
C 46 ; WX 911 ; N a15 ; B 35 50 876 642 ;
C 47 ; WX 933 ; N a16 ; B 35 139 899 550 ;
C 48 ; WX 911 ; N a105 ; B 35 50 876 642 ;
C 49 ; WX 945 ; N a17 ; B 35 139 909 553 ;
C 50 ; WX 974 ; N a18 ; B 35 104 938 587 ;
C 51 ; WX 755 ; N a19 ; B 34 -13 721 705 ;
C 52 ; WX 846 ; N a20 ; B 36 -14 811 705 ;
C 53 ; WX 762 ; N a21 ; B 35 0 727 692 ;
C 54 ; WX 761 ; N a22 ; B 35 0 727 692 ;
C 55 ; WX 571 ; N a23 ; B -1 -68 571 661 ;
C 56 ; WX 677 ; N a24 ; B 36 -13 642 705 ;
C 57 ; WX 763 ; N a25 ; B 35 0 728 692 ;
C 58 ; WX 760 ; N a26 ; B 35 0 726 692 ;
C 59 ; WX 759 ; N a27 ; B 35 0 725 692 ;
C 60 ; WX 754 ; N a28 ; B 35 0 720 692 ;
C 61 ; WX 494 ; N a6 ; B 35 0 460 692 ;
CapHeight 681
XHeight 484
Ascender 717
Descender -228
StartCharMetrics 228
C 32 ; WX 320 ; N space ; B 0 0 0 0 ;
C 33 ; WX 300 ; N exclam ; B 75 -8 219 698 ;
C 34 ; WX 380 ; N quotedbl ; B 56 458 323 698 ;
C 35 ; WX 620 ; N numbersign ; B 65 0 556 681 ;
C 36 ; WX 620 ; N dollar ; B 34 -109 593 791 ;
C 37 ; WX 900 ; N percent ; B 22 -8 873 698 ;
C 38 ; WX 800 ; N ampersand ; B 45 -17 787 698 ;
C 39 ; WX 220 ; N quoteright ; B 46 480 178 698 ;
C 40 ; WX 300 ; N parenleft ; B 76 -145 278 727 ;
C 41 ; WX 300 ; N parenright ; B 17 -146 219 727 ;
C 42 ; WX 440 ; N asterisk ; B 54 325 391 698 ;
C 43 ; WX 600 ; N plus ; B 51 555 513 ;
C 44 ; WX 320 ; N comma ; B 90 -114 223 114 ;
C 45 ; WX 400 ; N hyphen ; B 50 323 350 292 ;
C 46 ; WX 320 ; N period ; B 92 -8 220 123 ;
C 47 ; WX 600 ; N slash ; B 74 -149 532 717 ;
C 48 ; WX 620 ; N zero ; B 40 -17 586 698 ;
C 49 ; WX 620 ; N one ; B 160 0 501 681 ;
C 50 ; WX 620 ; N two ; B 42 0 576 698 ;
C 51 ; WX 620 ; N three ; B 40 -17 576 698 ;
C 52 ; WX 620 ; N four ; B 25 0 600 681 ;
C 53 ; WX 620 ; N five ; B 60 -17 584 717 ;
C 54 ; WX 620 ; N six ; B 45 -17 590 698 ;
C 55 ; WX 620 ; N seven ; B 60 0 586 681 ;
C 56 ; WX 620 ; N eight ; B 44 -17 583 698 ;
C 57 ; WX 620 ; N nine ; B 37 -17 576 698 ;
C 58 ; WX 320 ; N colon ; B 92 -8 220 494 ;
C 59 ; WX 320 ; N semicolon ; B 90 -114 223 494 ;
C 60 ; WX 600 ; N less ; B 49 -2 558 526 ;
C 61 ; WX 600 ; N equal ; B 51 126 555 398 ;
C 62 ; WX 600 ; N greater ; B 48 -2 557 526 ;
C 63 ; WX 540 ; N question ; B 27 -8 514 698 ;
C 64 ; WX 820 ; N at ; B 55 -17 755 698 ;
C 65 ; WX 680 ; N A ; B -37 0 714 681 ;
C 66 ; WX 740 ; N B ; B 31 0 702 681 ;
C 67 ; WX 740 ; N C ; B 44 -17 702 698 ;
C 68 ; WX 800 ; N D ; B 31 0 752 681 ;
C 69 ; WX 720 ; N E ; B 31 0 705 681 ;
C 70 ; WX 640 ; N F ; B 31 0 654 681 ;
C 71 ; WX 800 ; N G ; B 44 -17 778 698 ;
C 72 ; WX 800 ; N H ; B 31 0 769 681 ;
C 73 ; WX 340 ; N I ; B 31 0 301 681 ;
C 74 ; WX 600 ; N J ; B -23 -17 567 681 ;
KPX A Y -35
KPX A W -40
KPX A V -56
KPX A T 1

KPX F period -66
KPX F comma -41
KPX F A -21

KPX L y 79
KPX L Y 13
KPX L W 1
KPX L V -4
KPX L T 28

KPX P period -60
KPX P comma -55
KPX P A -8

KPX R y 59
KPX R Y 26
KPX R W 13
KPX R V 8
KPX R T 71

KPX T s 16
KPX T r 38
KPX T period -33
KPX T o 15
KPX T i 42
KPX T hyphen 90
KPX T e 13
KPX T comma -28
KPX T c 14
KPX T a 17
KPX T A 1

KPX V y 15
KPX V u -38
KPX V r -41
KPX V period -40
KPX V o -71
KPX V i -20
KPX V hyphen 11
KPX V e -72
KPX V comma -34
KPX V a -69
KPX V A -66
Open Source Used In SVO 12.3.0 8413

KPX W y 15
KPX W u -38
KPX W r -41
KPX W period -40
KPX W o -68
KPX W i -20
KPX W hyphen 11
KPX W e -69
KPX W comma -34
KPX W a -66
KPX W A -64

KPX Y v 15
KPX Y u -38
KPX Y q -55
KPX Y period -40
KPX Y p -31
KPX Y o -57
KPX Y i -37
KPX Y hyphen 11
KPX Y e -58
KPX Y comma -34
KPX Y a -54
KPX Y A -53

KPX f f 29

KPX r q 9
KPX r period -64
KPX r o 8
KPX r n 31
KPX r m 31
KPX r hyphen 70
KPX r h -21
KPX r g -4
KPX r f 33
KPX r e 7
KPX r d 7
KPX r comma -58
KPX r c 7
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 200 177 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 130 177 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 130 177 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 140 177 ;
C 94 ; WX 600 ; N asciicircum ; B 94 354 506 622 ;
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;
C 96 ; WX 600 ; N quoteleft ; B 224 328 387 562 ;
C 97 ; WX 600 ; N a ; B 53 -15 559 441 ;
C 98 ; WX 600 ; N b ; B 14 -15 575 629 ;
C 99 ; WX 600 ; N c ; B 66 -15 529 441 ;
C 100 ; WX 600 ; N d ; B 45 -15 591 629 ;
C 101 ; WX 600 ; N e ; B 66 -15 548 441 ;
C 102 ; WX 600 ; N f ; B 114 0 531 629 ;
C 103 ; WX 600 ; N g ; B 45 -15 566 441 ;
C 104 ; WX 600 ; N h ; B 18 0 582 629 ;
C 105 ; WX 600 ; N i ; B 95 0 505 657 ;
C 106 ; WX 600 ; N j ; B 82 -157 410 657 ;
C 107 ; WX 600 ; N k ; B 43 0 580 629 ;
C 108 ; WX 600 ; N l ; B 95 0 505 629 ;
C 109 ; WX 600 ; N m ; B -5 0 605 441 ;
C 110 ; WX 600 ; N n ; B 26 0 575 441 ;
C 111 ; WX 600 ; N o ; B 62 -15 538 441 ;
C 112 ; WX 600 ; N p ; B 9 -157 555 441 ;
C 113 ; WX 600 ; N q ; B 45 -157 591 441 ;
C 114 ; WX 600 ; N r ; B 60 0 559 441 ;
C 115 ; WX 600 ; N s ; B 80 -15 513 441 ;
C 116 ; WX 600 ; N t ; B 87 -15 530 561 ;
C 117 ; WX 600 ; N u ; B 21 -15 562 426 ;
C 118 ; WX 600 ; N v ; B 10 -10 590 426 ;
C 119 ; WX 600 ; N w ; B 4 -10 604 426 ;
C 120 ; WX 600 ; N x ; B 20 0 580 426 ;
C 121 ; WX 600 ; N y ; B 7 -157 592 426 ;
C 122 ; WX 600 ; N z ; B 99 0 502 426 ;
C 123 ; WX 600 ; N braceleft ; B 182 -108 437 622 ;
C 124 ; WX 600 ; N bar ; B 275 -250 326 750 ;
C 125 ; WX 600 ; N braceright ; B 163 -108 418 622 ;
C 126 ; WX 600 ; N asciitilde ; B 63 197 540 320 ;
C 127 ; WX 600 ; N exclamdown ; B 236 -157 364 430 ;
C 128 ; WX 600 ; N cent ; B 96 -49 500 614 ;
C 129 ; WX 600 ; N sterlingsign ; B 84 -21 521 611 ;
C 130 ; WX 600 ; N fraction ; B 92 -57 509 665 ;
C 131 ; WX 600 ; N yen ; B 26 0 574 562 ;
C 132 ; WX 600 ; N florin ; B 4 -143 539 622 ;
C 133 ; WX 600 ; N section ; B 113 -78 488 580 ;
C 134 ; WX 600 ; N currency ; B 73 58 527 506 ;
C 135 ; WX 600 ; N quotesingle ; B 259 328 341 562 ;
C 136 ; WX 600 ; N quotedblleft ; B 143 328 471 562 ;
C 137 ; WX 600 ; N guillemotleft ; B 37 70 563 446 ;
C 138 ; WX 600 ; N guilsingleleft ; B 149 70 451 446 ;
C 139 ; WX 600 ; N guilsingleright ; B 149 70 451 446 ;
C 140 ; WX 600 ; N fi ; B 3 0 597 629 ;
C 141 ; WX 600 ; N fl ; B 3 0 597 629 ;

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C 44 ; WX 278 ; N comma ; B 73 -137 194 88 ;
C 45 ; WX 333 ; N hyphen ; B 89 229 355 291 ;
C 46 ; WX 278 ; N period ; B 102 0 194 88 ;
C 47 ; WX 278 ; N slash ; B -22 -90 445 739 ;
C 48 ; WX 556 ; N zero ; B 93 -14 609 705 ;
C 49 ; WX 556 ; N one ; B 231 0 516 705 ;
C 50 ; WX 556 ; N two ; B 48 0 628 705 ;
C 51 ; WX 556 ; N three ; B 74 -14 605 705 ;
C 52 ; WX 556 ; N four ; B 102 0 194 88 ;
C 53 ; WX 556 ; N five ; B 71 -14 616 698 ;
C 54 ; WX 556 ; N six ; B 94 -14 617 705 ;
C 55 ; WX 556 ; N seven ; B 152 0 656 698 ;
C 56 ; WX 556 ; N eight ; B 80 -14 601 705 ;
C 57 ; WX 556 ; N nine ; B 84 -14 607 705 ;
C 58 ; WX 278 ; N colon ; B 102 0 280 492 ;
C 59 ; WX 278 ; N semicolon ; B 73 -137 280 492 ;
C 60 ; WX 660 ; N less ; B 129 -6 687 505 ;
C 61 ; WX 660 ; N equal ; B 106 124 660 378 ;
C 62 ; WX 660 ; N greater ; B 79 -6 640 505 ;
C 63 ; WX 500 ; N question ; B 148 0 594 739 ;
C 64 ; WX 800 ; N at ; B 108 -19 857 739 ;
C 65 ; WX 667 ; N A ; B 15 0 651 720 ;
C 66 ; WX 667 ; N B ; B 81 0 697 720 ;
C 67 ; WX 722 ; N C ; B 111 -19 771 739 ;
C 68 ; WX 722 ; N D ; B 81 0 758 720 ;
C 69 ; WX 611 ; N E ; B 81 0 713 720 ;
C 70 ; WX 556 ; N F ; B 74 0 691 720 ;
C 71 ; WX 778 ; N G ; B 116 -19 796 739 ;
C 72 ; WX 722 ; N H ; B 80 0 795 720 ;
C 73 ; WX 278 ; N I ; B 105 0 326 720 ;
C 74 ; WX 500 ; N J ; B 58 -19 568 720 ;
C 75 ; WX 667 ; N K ; B 85 0 752 720 ;
C 76 ; WX 556 ; N L ; B 81 0 547 720 ;
C 77 ; WX 833 ; N M ; B 78 0 908 720 ;
C 78 ; WX 722 ; N N ; B 79 0 795 720 ;
C 79 ; WX 778 ; N O ; B 117 -19 812 739 ;
C 80 ; WX 611 ; N P ; B 78 0 693 720 ;
C 81 ; WX 778 ; N Q ; B 112 -52 808 739 ;
C 82 ; WX 667 ; N R ; B 80 0 726 720 ;
C 83 ; WX 611 ; N S ; B 82 -19 663 739 ;
C 84 ; WX 556 ; N T ; B 157 0 693 720 ;
C 85 ; WX 722 ; N U ; B 129 -19 793 720 ;
C 86 ; WX 611 ; N V ; B 171 0 746 720 ;
C 87 ; WX 889 ; N W ; B 167 0 1028 720 ;
C 88 ; WX 611 ; N X ; B 18 0 734 720 ;
C 89 ; WX 611 ; N Y ; B 165 0 751 720 ;
C 90 ; WX 611 ; N Z ; B 31 0 729 720 ;
C 91 ; WX 333 ; N bracketleft ; B 50 -191 439 739 ;
Open Source Used In SVO 12.3.0 8424
KPX r f 18
KPX r e -18
KPX r d -18
KPX r comma -92
KPX r c -18

KPX v period -74
KPX v comma -74

KPX w period -55
KPX w comma -55

KPX y period -92
KPX y comma -92
EndKernPairs
EndKernData
StartComposites 58
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 202 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 83 0 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 139 202 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 83 0 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 194 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 111 0 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 139 202 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 83 0 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 139 202 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 83 0 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 194 202 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 194 202 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 194 202 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 194 202 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 111 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 111 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 111 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 111 0 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -47 202 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -47 202 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -47 202 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -27 202 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -75 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -75 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -75 0 ;
CCigrave 2 ; PCC dotlessi 0 0 ; PCC grave -55 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 202 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 202 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 202 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 202 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 111 0 ;
KPX A quotedblright -125
KPX A Y -55
KPX A W -74
KPX A V -74
KPX A U -37
KPX A T -30
KPX A Q -18
KPX A O -18
KPX A G -18
KPX A C -18

KPX B period -50
KPX B comma -50

KPX C period -50
KPX C comma -50

KPX D period -50
KPX D comma -50
KPX D Y -18
KPX D W -18
KPX D V -18

KPX F r -55
KPX F period -125
KPX F o -55
KPX F i -10
KPX F e -55
KPX F comma -125
KPX F a -55
KPX F A -35

KPX G period -50
KPX G comma -50

KPX J u -18
KPX J period -100
KPX J o -37
KPX J e -37
KPX J comma -100
KPX J a -37
KPX J A -18

KPX L y -50
KPX L quoteright -125
KPX L quotedblright -125
KPX L Y -100
KPX L W -100
KPX L V -100
KPX L T -100

KPX N period -60
KPX N comma -60

KPX O period -50
KPX O comma -50
KPX O Y -18
KPX O X -18
KPX O V -18
KPX O T 18

KPX P period -125
KPX P o -55
KPX P e -55
KPX P comma -125
KPX P a -55
KPX P A -50

KPX Q period -20
KPX Q comma -20

KPX R Y -18
KPX R W -18
KPX R V -18
KPX R U -18

KPX S period -50
KPX S comma -50

KPX T y -50
KPX T w -50
KPX T u -50
KPX T semicolon -50
KPX T r -50
KPX T period -100
KPX T o -74
KPX T i -18
KPX T hyphen -100
KPX T h -25
KPX T e -74
KPX T comma -100
KPX T colon -50
KPX T a -74
KPX T O 18

KPX U period -100
KPX c comma -50
KPX colon space -37
KPX comma space -37
KPX comma quotedblright -37
KPX e period -37
KPX e comma -37
KPX f quoteright 75
KPX f quotedblright 75
KPX f period -75
KPX f o -10
KPX f comma -75
KPX g period -50
KPX g comma -50
KPX l y -10
KPX o period -50
KPX o comma -50
KPX p period -50
KPX p comma -50
KPX period space -37
KPX period quotedblright -37
KPX period quotedblright -37
KPX quotedblleft A -75
KPX quotedblright space -37
KPX quoteleft quoteleft -37
KPX quoteleft A -75
KPX quoteright s -25
KPX quoteright quoteright -37
KPX quoteright d -37
KPX r semicolon -25
KPX r s -10
KPX r period -125
KPX r k -18
KPX r hyphen -75
CC Uacute 2 ; PCC U 0 0 ; PCC acute 301 256 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 301 256 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 301 256 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 301 256 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 256 256 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 236 256 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 227 256 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 121 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 121 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 121 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 121 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 121 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 121 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 56 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 56 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 56 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 56 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex 0 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis 0 0 ;
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave 0 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 139 0 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 84 0 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 84 0 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 84 0 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 84 0 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 84 0 ;
CC scharon 2 ; PCC s 0 0 ; PCC caron 56 0 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 139 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 0 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 139 0 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 84 0 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 84 0 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 65 0 ;
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EndFontMetrics
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Comment Creation Date: Thu May 1 12:43:52 1997
Comment UniqueID 43052
Comment VMusage 37169 48194
FontName Helvetica-Bold
FullName Helvetica Bold
FamilyName Helvetica
Weight Bold
ItalicAngle 0
IsFixedPitch false
CharacterSet ExtendedRoman
FontBBox -170 -228 1003 962
UnderlinePosition -100
UnderlineThickness 50
Version 002.000


EncodingScheme AdobeStandardEncoding

CapHeight 718
XHeight 532
Ascender 718
Descender -207
StdHW 118
StdVW 140

StartCharMetrics 315
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
C 33 ; WX 333 ; N exclam ; B 90 0 244 718 ;
C 34 ; WX 474 ; N quotedbl ; B 98 447 376 718 ;
C 35 ; WX 556 ; N numbersign ; B 18 0 538 698 ;
C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;
C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;
C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;
C 39 ; WX 278 ; N quoteright ; B 69 445 209 718 ;
C 40 ; WX 333 ; N parenleft ; B 35 -208 314 734 ;
C 41 ; WX 333 ; N parenright ; B 19 -208 298 734 ;
C 42 ; WX 389 ; N asterisk ; B 27 387 362 718 ;
C 43 ; WX 584 ; N plus ; B 40 0 544 506 ;
C 44 ; WX 278 ; N comma ; B 64 -168 214 146 ;
C 45 ; WX 333 ; N hyphen ; B 27 215 306 345 ;
C 46 ; WX 278 ; N period ; B 64 0 214 146 ;
C 47 ; WX 278 ; N slash ; B -33 -19 311 737 ;
C 48 ; WX 556 ; N zero ; B 32 -19 524 710 ;
C 49 ; WX 556 ; N one ; B 69 0 378 710 ;
C 50 ; WX 556 ; N two ; B 26 0 511 710 ;
C 51 ; WX 556 ; N three ; B 27 -19 516 710 ;
C 52 ; WX 556 ; N four ; B 27 0 526 710 ;
C 53 ; WX 556 ; N five ; B 27 -19 516 698 ;
C 54 ; WX 556 ; N six ; B 31 -19 520 710 ;
C 55 ; WX 556 ; N seven ; B 25 0 528 698 ;
C 56 ; WX 556 ; N eight ; B 32 -19 524 710 ;
C 57 ; WX 556 ; N nine ; B 30 -19 522 710 ;
C 58 ; WX 333 ; N colon ; B 92 0 242 512 ;
C 59 ; WX 333 ; N semicolon ; B 92 -168 242 512 ;
C 60 ; WX 584 ; N less ; B 38 -8 546 514 ;
C 61 ; WX 584 ; N equal ; B 40 87 544 419 ;
C 62 ; WX 584 ; N greater ; B 38 -8 546 514 ;
C 63 ; WX 611 ; N question ; B 60 0 556 727 ;
C 64 ; WX 975 ; N at ; B 118 -19 856 737 ;

Open Source Used In SVO 12.3.0  8443
KPX A Ccedilla -40
KPX A G -50
KPX A G breve -50
KPX A G comma accent -50
KPX A O -40
KPX A Oacute -40
KPX A O circumflex -40
KPX A Odieresis -40
KPX A O grave -40
KPX A O hungarumlaut -40
KPX A Omacron -40
KPX A O slash -40
KPX A O tilde -40
KPX A O breve -90
KPX A T -90
KPX A T caron -90
KPX A T comma accent -90
KPX A U -50
KPX A Uacute -50
KPX A U circumflex -50
KPX A Udieresis -50
KPX A U grave -50
KPX A U hungarumlaut -50
KPX A U macron -50
KPX A U ogonek -50
KPX A U ring -50
KPX A V -80
KPX A W -60
KPX A Y -110
KPX A Yacute -110
KPX A Ydieresis -110
KPX A U acute -30
KPX A u acute -30
KPX A u circumflex -30
KPX A udieresis -30
KPX A u grave -30
KPX A u hungarumlaut -30
KPX A u macron -30
KPX A u ogonek -30
KPX A u ring -30
KPX A v -40
KPX A w -30
KPX A y -30
KPX A yacute -30
KPX A ydieresis -30
KPX A aacute C -40
KPX A aacute C caron -40
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KPX Aogonek Gcommaaccent -50
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KPX Aogonek Omacron -40
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KPX Aogonek Otilde -40
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KPX Aogonek Uring -50
KPX Aogonek V -80
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KPX Aring C -40
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Open Source Used In SVO 12.3.0 8457
 KPX Atilde Ccedilla -40
 KPX Atilde G -50
 KPX Atilde Gbreve -50
 KPX Atilde Gcommaaccent -50
 KPX Atilde O -40
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 KPX Atilde Ograve -40
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 KPX Atilde Umacron -50
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 KPX Atilde uing -30
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KPX Otilde Aogonek -50
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KPX Otilde Tcaron -40
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KPX T odieresis -80
KPX T ograve -80
KPX T ohungarumlaut -80
KPX T omacron -80
KPX T oslash -80
KPX T otilde -80
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KPX T racute -80
KPX T rcommaaccent -80
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KPX T uacute -90
KPX T ucircumflex -90
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KPX T earon Adieresis -90
KPX T earon Agrave -90
KPX T earon Amacron -90
KPX T earon Aogonek -90
KPX T earon Aring -90
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KPX T earon Ocircumflex -40
KPX T earon Odieresis -40
KPX T earon Ograve -40
KPX T earon Ohungarumlaut -40
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KPX Udieresis Agrave -50
KPX Udieresis Amacron -50
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KPX Ugrave Asuper -50
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KPX Ugrave Agrave -50
KPX Ugrave Amacron -50
KPX Ugrave Aogonek -50
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KPX Ugrave Atilde -50
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KPX Umacron Acircumflex -50
KPX Umacron Adieresis -50
KPX Umacron Agrave -50
KPX Umacron Amacron -50
KPX Umacron Aogonek -50
KPX Umacron Aring -50
KPX Umacron Atilde -50
KPX Umacron comma -30
KPX Umacron period -30
KPX Uogonek A -50
KPX Uogonek Aacute -50
KPX Uogonek Abreve -50
KPX Uogonek Acircumflex -50
KPX Uogonek Adieresis -50
KPX Uogonek Agrave -50
KPX Uogonek Amacron -50
KPX Uogonek Aogonek -50
KPX Uogonek Aring -50
KPX Uogonek Atilde -50
KPX Uogonek comma -30
KPX Uogonek period -30
KPX Uring A -50
KPX Uring Aacute -50
KPX Uring Abreve -50
KPX Uring Acircumflex -50
KPX Uring Adieresis -50
KPX Uring Agrave -50
KPX Uring Amacron -50
KPX Uring Aogonek -50
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KPX Uring period -30
KPX V A -80
KPX V Aacute -80
KPX V Abreve -80
KPX V Acircumflex -80
KPX V Adieresis -80
KPX V Agrave -80
KPX V Amacron -80
KPX V Aogonek -80
KPX V Aring -80
KPX V Atilde -80
KPX V G -50
KPX V Gbreve -50
KPX V Gcommaaccent -50
KPX V O -50
KPX V Oacute -50
KPX V Ocircumflex -50
KPX comma space -40
KPX d d -10
KPX d d d -10
KPX d d -15
KPX d w -15
KPX d y -15
KPX d y -15
KPX d ydieresis -15
KPX deroat d -10
KPX deroat deroat -10
KPX deroat v -15
KPX deroat w -15
KPX deroat y -15
KPX deroat yacute -15
KPX deroat ydieresis -15
KPX e comma 10
KPX e period 20
KPX e v -15
KPX e w -15
KPX e x -15
KPX e y -15
KPX e y -15
KPX e ydieresis -15
KPX eacute comma 10
KPX eacute period 20
KPX eacute v -15
KPX eacute w -15
KPX eacute x -15
KPX eacute y -15
KPX eacute yacute -15
KPX eacute ydieresis -15
KPX ecaron comma 10
KPX ecaron period 20
KPX ecaron v -15
KPX ecaron w -15
KPX ecaron x -15
KPX ecaron y -15
KPX ecaron yacute -15
KPX ecaron ydieresis -15
KPX ecircumflex comma 10
KPX ecircumflex period 20
KPX ecircumflex v -15
KPX ecircumflex w -15
KPX ecircumflex x -15
KPX ecircumflex y -15
KPX ecircumflex yacute -15
KPX ecircumflex ydieresis -15
KPX edieresis comma 10
Open Source Used In SVO 12.3.0 8490

KPX f eogonek -10
KPX f o -20
KPX f oacute -20
KPX f ocircumflex -20
KPX f odieresis -20
KPX f ograve -20
KPX f ohungarumlaut -20
KPX f omacron -20
KPX f oslash -20
KPX f otilde -20
KPX f period -10
KPX f quotedblright 30
KPX f quoteright 30
KPX g e 10
KPX g eacute 10
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KPX g emacron 10
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KPX g gbreve -10
KPX g gcommaaccent -10
KPX gibreve e 10
KPX gibreve eacute 10
KPX gibreve ecaron 10
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KPX gibreve edotaccent 10
KPX gibreve egrave 10
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KPX gcommaaccent edieresis 10
KPX gcommaaccent edotaccent 10
KPX gcommaaccent egrave 10
KPX gcommaaccent emacron 10
KPX gcommaaccent eogonek 10
KPX gcommaaccent g -10
KPX gcommaaccent gbreve -10
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EncodingScheme AdobeStandardEncoding

CapHeight 669
XHeight 462
Ascender 699
Descender -205
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C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
C 33 ; WX 389 ; N exclam ; B 67 -13 370 684 ;
C 34 ; WX 555 ; N quotedbl ; B 136 398 536 685 ;
C 35 ; WX 500 ; N numbersign ; B -33 0 533 700 ;
C 36 ; WX 500 ; N dollar ; B -20 -100 497 733 ;
C 37 ; WX 833 ; N percent ; B 39 -10 793 692 ;
C 38 ; WX 778 ; N ampersand ; B 67 -13 370 682 ;
C 39 ; WX 333 ; N quoteright ; B 98 369 302 685 ;
C 40 ; WX 333 ; N parenleft ; B 28 -179 344 685 ;
C 41 ; WX 333 ; N parenright ; B -44 -179 271 685 ;
C 42 ; WX 500 ; N asterisk ; B 65 249 456 685 ;
C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;
C 44 ; WX 250 ; N comma ; B -60 -182 144 134 ;
C 45 ; WX 333 ; N hyphen ; B 2 166 271 282 ;
C 46 ; WX 250 ; N period ; B -9 -13 139 135 ;
C 47 ; WX 278 ; N slash ; B -64 -18 342 685 ;
C 48 ; WX 500 ; N zero ; B 17 -14 477 683 ;
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C 51 ; WX 500 ; N three ; B -15 -13 450 683 ;
C 52 ; WX 500 ; N four ; B -15 0 503 683 ;
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C 54 ; WX 500 ; N six ; B 23 -15 509 679 ;
C 55 ; WX 500 ; N seven ; B 52 0 525 669 ;
C 56 ; WX 500 ; N eight ; B 3 -13 476 683 ;
C 57 ; WX 500 ; N nine ; B -12 -10 475 683 ;
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C 59 ; WX 333 ; N semicolon ; B -25 -183 264 459 ;
C 60 ; WX 570 ; N less ; B 31 -8 539 514 ;
C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;
C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;
C 63 ; WX 500 ; N question ; B 79 -13 470 684 ;
C 64 ; WX 832 ; N at ; B 63 -18 770 685 ;
C 65 ; WX 667 ; N A ; B -67 0 593 683 ;
C 66 ; WX 667 ; N B ; B -24 0 624 669 ;
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KPX A G -60
KPX A C -65

KPX B period 0
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KPX B A -25

KPX D period 0
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KPX D Y -50
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KPX D V -50
KPX D A -25

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KPX G period 0
KPX G comma 0

KPX J u -40
KPX J period -10
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KPX f quoteright 55
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KPX l y 0
KPX l w 0

KPX m y 0
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<object class="wxPanel" name="MainPanel">
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<object class="sizeritem">
<object class="wxStaticText">
<label>Check out this whizz-bang stuff!</label>
<style>wxALIGN_CENTRE</style>
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<object class="wxStaticText">
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<border>2</border>
</object>
</object>
</resource>
### Classic matplotlib plotting style as of v1.5

### LINES

# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.

lines.linewidth : 1.0 # line width in points
lines.linestyle : - # solid line
lines.color : b # has no affect on plot(); see axes.prop_cycle
lines.marker : None  # the default marker
lines.markercolor : auto  # the default markerfacecolor
lines.markeredgewidth : 0.5  # the line width around the marker symbol
lines.markersize : 6  # markersize, in points
lines.dash_joinstyle : round  # miter|round|bevel
lines.dash_capstyle : butt  # butt|round|projecting
lines.solid_joinstyle : round  # miter|round|bevel
lines.solid_capstyle : projecting  # butt|round|projecting
lines.antialiased : True  # render lines in antialiased (no jaggies)
lines.dashed_pattern : 6, 6
lines.dashdot_pattern : 3, 5, 1, 5
lines.dotted_pattern : 1, 3
lines.scale_dashes: False

### Marker props
markers.fillstyle: full

### PATCHES
# Patches are graphical objects that fill 2D space, like polygons or
circles. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches
# information on patch properties
patch.linewidth : 1.0  # edge width in points
patch.facecolor : b
patch.force_edgecolor : True
patch.edgecolor : k
patch.antialiased : True  # render patches in antialiased (no jaggies)

hatch.color : k
hatch.linewidth : 1.0

hist.bins : 10

### FONT
#
# font properties used by text.Text. See
# http://matplotlib.org/api/font_manager_api.html for more
# information on font properties. The 6 font properties used for font
# matching are given below with their default values.
#
# The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them. When text.usetex is False,
# font.family may also be one or more concrete font names.
#
# The font.style property has three values: normal (or roman), italic or oblique. The oblique style will be used for italic, if it is not present.
#
# The font.variant property has two values: normal or small-caps. For TrueType fonts, which are scalable fonts, small-caps is equivalent to using a font size of 'smaller', or about 83% of the current font size.
#
# The font.weight property has effectively 13 values: normal, bold, bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as 400, and bold is 700. bolder and lighter are relative values with respect to the current weight.
#
# The font.stretch property has 11 values: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, semi-expanded, expanded, extra-expanded, ultra-expanded, wider, and narrower. This property is not currently implemented.
#
# The font.size property is the default font size for text, given in pts. 12pt is the standard value.
#
font.family : sans-serif
font.style : normal
font.variant : normal
font.weight : normal
font.stretch : normal
# note that font.size controls default text sizes. To configure special text sizes tick labels, axes, labels, title, etc, see the rc settings for axes and ticks. Special text sizes can be defined relative to font.size, using the following values: xx-small, x-small, small, medium, large, x-large, xx-large, larger, or smaller
font.size : 12.0
font.sans-serif: DejaVu Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde, sans-serif
font.cursive : Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive
font.fantasy : Comic Sans MS, Chicago, Charcoal, ImpactWestern, Humor Sans, fantasy
font.monospace : DejaVu Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

### TEXT
# text properties used by text.Text. See http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more information on text properties

text.color : k
LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex

text.usetex : False # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# \LaTeX\textpackage command, please inquire at the
# matplotlib mailing list

text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of \LaTeX statements
# that are included in the \LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphicx,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings

text.hinting : auto # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use freetype's autohinter
# 'native': Use the hinting information in the
# font file, if available, and if your
# freetype library supports it
# 'either': Use the native hinting information,
# or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.
text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
mathtext.cal : cursive
mathtext.rm  : serif
mathtext.tt  : monospace
mathtext.it  : serif;italic
mathtext.bf : serif:bold
mathtext.sf : sans-serif
mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',
# 'stixsans' or 'custom'
mathtext.fallback: cm # Select fallback font from ['cm' (Computer Modern), 'stix'
# 'stixsans'] when a symbol can not be found in one of the
# custom math fonts. Select 'None' to not perform fallback
# and replace the missing character by a dummy.

mathtext.default : it # The default font to use for math.
# Can be any of the LaTeX font names, including
# the special name "regular" for the same font
# used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default font sizes for ticklabels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
axes.facecolor      : w       # axes background color
axes.edgecolor      : k       # axes edge color
axes.linewidth      : 1.0     # edge linewidth
axes.grid           : False   # display grid or not
axes.grid.which     : major
axes.grid.axis      : both
axes.titlesize      : large   # fontsize of the axes title
axes.titley         : 1.0     # at the top, no autopositioning.
axes.titlepad       : 5.0     # pad between axes and title in points
axes.titleweight    : normal  # font weight for axes title
axes.labelsize      : medium  # fontsize of the x and y labels
axes.labelpad       : 5.0     # space between label and axis
axes.labelweight    : normal  # weight of the x and y labels
axes.labelcolor     : k
axes.axisbelow      : False   # whether axis gridlines and ticks are below
# the axes elements (lines, text, etc)
axes.formatter.limits : -7, 7 # use scientific notation if log10
# of the axis range is smaller than the
# first or larger than the second
axes.formatter.use_locale : False # When True, format tick labels
# according to the user's locale.
# For example, use ',', as a decimal
# separator in the fr_FR locale.
axes.formatter.use_mathtext : False # When True, use mathtext for scientific
# notation.
axes.formatter.useoffset : True   # If True, the tick label formatter
# will default to labeling ticks relative
# to an offset when the data range is very
# small compared to the minimum absolute
# value of the data.
axes.formatter.offset_threshold : 2  # When useoffset is True, the offset
  # will be used when it can remove
  # at least this number of significant
  # digits from tick labels.

axes.unicode_minus : True  # use unicode for the minus symbol
  # rather than hyphen. See
  # http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes

axes.prop_cycle : cycler('color', 'bgrcmyk')
  # color cycle for plot lines
  # as list of string colorspecs:
  # single letter, long name, or
  # web-style hex

axes.autolimit_mode : round_numbers
axes.xmargin : 0  # x margin. See `axes.Axes.margins`
axes.ymargin : 0  # y margin See `axes.Axes.margins`
axes.spines.bottom : True
axes.spines.left : True
axes.spines.right : True
axes.spines.top : True
polaraxes.grid : True  # display grid on polar axes
axes3d.grid : True  # display grid on 3d axes

date.autoformatter.year : %Y
date.autoformatter.month : %b %Y
date.autoformatter.day : %b %d %Y
date.autoformatter.hour : %H:%M:%S
date.autoformatter.minute : %H:%M:%S.%f
date.autoformatter.second : %H:%M:%S.%f

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick

xtick.top : True  # draw ticks on the top side
xtick.bottom : True  # draw ticks on the bottom side
xtick.major.size : 4  # major tick size in points
xtick.minor.size : 2  # minor tick size in points
xtick.minor.visible : False
xtick.major.width : 0.5  # major tick width in points
xtick.minor.width : 0.5  # minor tick width in points
xtick.major.pad : 4  # distance to major tick label in points
xtick.minor.pad : 4  # distance to the minor tick label in points
xtick.color : k  # color of the tick labels
xtick.labelsize : medium  # fontsize of the tick labels
xtick.direction : in  # direction: in, out, or inout
xtick.major.top : True  # draw x axis top major ticks
xtick.major.bottom : True   # draw x axis bottom major ticks
xtick.minor.top : True   # draw x axis top minor ticks
xtick.minor.bottom : True   # draw x axis bottom minor ticks
xtick.alignment : center

ytick.left : True   # draw ticks on the left side
ytick.right : True   # draw ticks on the right side
ytick.major.size : 4    # major tick size in points
ytick.minor.size : 2    # minor tick size in points
ytick.minor.visible : False
ytick.major.width : 0.5  # major tick width in points
ytick.minor.width : 0.5  # minor tick width in points
ytick.major.pad : 4     # distance to major tick label in points
ytick.minor.pad : 4     # distance to the minor tick label in points
ytick.color : k         # color of the tick labels
ytick.labelsize : medium # fontsize of the tick labels
ytick.direction : in    # direction: in, out, or inout
ytick.major.left : True  # draw y axis left major ticks
ytick.major.right : True  # draw y axis right major ticks
ytick.minor.left : True  # draw y axis left minor ticks
ytick.minor.right : True  # draw y axis right minor ticks
ytick.alignment : center

### GRIDS
grid.color : k         # grid color
grid.linestyle : :      # dotted
grid.linewidth : 0.5    # in points
grid.alpha : 1.0        # transparency, between 0.0 and 1.0

### Legend
legend.fancybox : False  # if True, use a rounded box for the
# legend, else a rectangle
legend.loc : upper right
legend.numpoints : 2    # the number of points in the legend line
legend.fontsize : large
legend.borderpad : 0.4   # border whitespace in fontsize units
legend.markerscale : 1.0 # the relative size of legend markers vs. original
# the following dimensions are in axes coords
legend.labelsspacing : 0.5  # the vertical space between the legend entries in fraction of fontsize
legend.handlelength : 2.   # the length of the legend lines in fraction of fontsize
legend.handleheight : 0.7  # the height of the legend handle in fraction of fontsize
legend.handletextpad : 0.8 # the space between the legend line and legend text in fraction of fontsize
legend.borderaxespad : 0.5  # the border between the axes and legend edge in fraction of fontsize
legend.columnspacing : 2.   # the border between the axes and legend edge in fraction of fontsize
legend.shadow : False
legend.frameon : True   # whether or not to draw a frame around legend
legend.framealpha : None  # opacity of legend frame
legend.scatterpoints : 3 # number of scatter points
legend.facecolor : inherit  # legend background color (when 'inherit' uses axes.facecolor)
legend.edgecolor : inherit  # legend edge color (when 'inherit' uses axes.edgecolor)

### FIGURE
# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
figure.titlesize : medium  # size of the figure title
figure.titleweight : normal  # weight of the figure title
figure.figsize : 8, 6  # figure size in inches
figure.dpi : 80  # figure dots per inch
figure.facecolor : 0.75  # figure facecolor; 0.75 is scalar gray
figure.edgecolor : w  # figure edgecolor
figure.autolayout : False  # When True, automatically adjust subplot parameters to make the plot fit the figure
figure.frameon : True

# The figure subplot parameters. All dimensions are a fraction of the figure width or height
figure.subplot.left : 0.125  # the left side of the subplots of the figure
figure.subplot.right : 0.9  # the right side of the subplots of the figure
figure.subplot.bottom : 0.1  # the bottom of the subplots of the figure
figure.subplot.top : 0.9  # the top of the subplots of the figure
figure.subplot.wspace : 0.2  # the amount of width reserved for space between subplots,
# expressed as a fraction of the average axis width
figure.subplot.hspace : 0.2  # the amount of height reserved for space between subplots,
# expressed as a fraction of the average axis height

### IMAGES
image.aspect : equal  # equal | auto | a number
image.interpolation : bilinear  # see help(imshow) for options
image.cmap : jet  # gray | jet etc..
image.lut : 256  # the size of the colormap lookup table
image.origin : upper  # lower | upper
image.resample : False
image.composite_image : True

### CONTOUR PLOTS
contour.negative_linestyle : dashed  # dashed | solid
contour.corner_mask : True

# errorbar props
toolbar.style: 3

# scatter props
scatter.cmap : o

### Boxplots
boxplot.bootstrap: None
boxplot.boxprops.color: b
boxplot.boxprops.linestyle: -
boxplot.boxprops.linewidth: 1.0
boxplot.capprops.color: k
boxplot.capprops.linestyle: -
boxplot.capprops.linewidth: 1.0
boxplot.flierprops.color: b
boxplot.flierprops.linestyle: none
boxplot.flierprops.linewidth: 1.0
boxplot.flierprops.marker: +
boxplot.flierprops.markeredgcolor: k
boxplot.flierprops.markercolor: auto
boxplot.flierprops.markersize: 6.0
boxplot.meanline: False
boxplot.meanprops.color: r
boxplot.meanprops.linestyle: -
boxplot.meanprops.linewidth: 1.0
boxplot.medianprops.color: r
boxplot.medianprops.marker: s
boxplot.medianprops.markeredgcolor: k
boxplot.medianprops.markercolor: auto
boxplot.medianprops.markersize: 6.0
boxplot.medianprops.linestyle: -
boxplot.medianprops.linewidth: 1.0
boxplot.notch: False
boxplot.patchartist: False
boxplot.showbox: True
boxplot.showcaps: True
boxplot.showfliers: True
boxplot.showmeans: False
boxplot.vertical: True
boxplot.whiskerprops.color: b
boxplot.whiskerprops.linestyle: --
boxplot.whiskerprops.linewidth: 1.0
boxplot.whiskers: 1.5

### Agg rendering
### Warning: experimental, 2008/10/10
agg.path.chunksize : 0  # 0 to disable; values in the range
                        # 10000 to 100000 can improve speed slightly
                        # and prevent an Agg rendering failure
                        # when plotting very large data sets,
                        # especially if they are very gappy.
                        # It may cause minor artifacts, though.
                        # A value of 20000 is probably a good
                        # starting point.

### SAVING FIGURES
path.simplify : True  # When True, simplify paths by removing "invisible"
    # points to reduce file size and increase rendering
    # speed
path.simplify_threshold : 0.1111111111111111
    # The threshold of similarity below which
    # vertices will be removed in the simplification
    # process
path.snap : True  # When True, rectilinear axis-aligned paths will be snapped to
    # the nearest pixel when certain criteria are met. When False,
    # paths will never be snapped.
path.sketch : None  # May be none, or a 3-tuple of the form (scale, length,
    # randomness).
    # *scale* is the amplitude of the wiggle
    # perpendicular to the line (in pixels). *length*
    # is the length of the wiggle along the line (in
    # pixels). *randomness* is the factor by which
    # the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white
savefig.dpi          : 100      # figure dots per inch
savefig.facecolor    : w        # figure facecolor when saving
savefig.edgecolor    : w        # figure edgecolor when saving
savefig.format       : png      # png, ps, pdf, svg
savefig.bbox         : standard  # 'tight' or 'standard'.
    # 'tight' is incompatible with pipe-based animation
    # backends (e.g. 'ffmpeg') but will work with those
    # based on temporary files (e.g. 'ffmpeg_file')
savefig.pad_inches   : 0.1      # Padding to be used when bbox is set to 'tight'
savefig.transparent  : False    # setting that controls whether figures are saved with a
    # transparent background by default
savefig.orientation : portrait

# ps backend params
ps.papersize         : letter   # auto, letter, legal, ledger, A0-A10, B0-B10
ps.useafm            : False    # use of afm fonts, results in small files
ps.usedistiller      : False    # can be: None, ghostscript or xpdf
    # Experimental: may produce smaller files.
    # xpdf intended for production of publication quality files,
    # but requires ghostscript, xpdf and ps2eps
ps.distiller.res     : 6000      # dpi
ps.fonttype          : 3        # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
pdf.compression      : 6        # integer from 0 to 9
    # 0 disables compression (good for debugging)
pdf.fonttype         : 3        # Output Type 3 (Type3) or Type 42 (TrueType)
pdf.inheritcolor : False
pdf.use14corefonts : False

# pgf backend params
pgf.texsystem : xelatex
pgf.rcfonts : True
pgf.preamble :

# svg backend params
svg.image_inline : True # write raster image data directly into the svg file
svg.fonttype : path # How to handle SVG fonts:
# 'none': Assume fonts are installed on the machine where the SVG will be viewed.
# 'path': Embed characters as paths -- supported by most SVG renderers

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : '')
keymap.fullscreen : f, ctrl+f # toggling
keymap.home : h, r, home # home or reset mnemonic
keymap.back : left, c, backspace # forward / backward keys to enable
keymap.forward : right, v # left handed quick navigation
keymap.pan : p # pan mnemonic
keymap.zoom : o # zoom mnemonic
keymap.save : s, ctrl+s # saving current figure
keymap.quit : ctrl+w, cmd+w # close the current figure
keymap.grid : g # switching on/off a grid in current axes
keymap.yscale : l # toggle scaling of y-axes ('log'/'linear')
keymap.xscale : k, L # toggle scaling of x-axes ('log'/'linear')

###ANIMATION settings
animation.writer : ffmpeg # MovieWriter 'backend' to use
animation.codec : mpeg4 # Codec to use for writing movie
animation.bitrate: -1 # Controls size/quality tradeoff for movie.
# -1 implies let utility auto-determine
animation.frame_format: png # Controls frame format used by temp files
animation_ffmpeg_path: ffmpeg # Path to ffmpeg binary. Without full path
# $PATH is searched
animation_ffmpeg_args: # Additional arguments to pass to ffmpeg
animation_convert_path: convert # Path to ImageMagick's convert binary.
# On Windows use the full path since convert
# is also the name of a system tool.
animation_convert_args:
animation.html: none

_internal.classic_mode: True
StartFontMetrics 4.1
# default seaborn aesthetic
# darkgrid + deep palette + notebook context

```python
axes.axisbelow: True
axes.edgecolor: white
axes.facecolor: EAEAF2
axes.grid: True
axes.labelcolor: .15
axes.labelsize: 11
axes.linewidth: 0
axes.prop_cycle: cycler('color', ['4C72B0', '55A868', 'C44E52', '8172B2', 'CCB974', '64B5CD'])
axes.titlesize: 12

figure.facecolor: white
figure.figsize: 8.0, 5.5

font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif

grid.color: white
grid.linestyle: -
grid.linewidth: 1

image.cmap: Greys

legend.fontsize: 10
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1

lines.linewidth: 1.75
lines.markeredgewidth: 0
lines.markersize: 7
lines.solid_capstyle: round

patch.facecolor: 4C72B0
patch.linewidth: .3

text.color: .15

xtick.color: .15
xtick.direction: out
xtick.labelsize: 10
xtick.major.pad: 7
```
xtick.major.size: 0
xtick.major.width: 1
xtick.minor.size: 0
xtick.minor.width: .5

ytick.color: .15
ytick.direction: out
ytick.labelsize: 10
ytick.major.pad: 7
ytick.major.size: 0
ytick.major.width: 1
ytick.minor.size: 0
ytick.minor.width: .5

# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn dark parameters
axes.grid: False
axes.facecolor: EAEAF2
axes.edgecolor: white
axes.linewidth: 0
grid.color: white
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0

# Seaborn poster context
figure.figsize: 12.8, 8.8
axes.labelsize: 17.6
axes.titlesize: 19.2
xtick.labelsize: 16
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KPX r c -7

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CC igrae 2 ; PCC dotlessi 0 0 ; PCC grave -115 0 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 60 0 ;
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FamilyName Helvetica
Weight Bold
ItalicAngle 0
IsFixedPitch false
FontBBox -139 -228 822 962
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.Helvetica is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 718
XHeight 532
Ascender 718
Descender -207
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KPX space W -65
KPX space V -65
KPX space T -81

KPX v period -65
KPX v o -24
KPX v comma -65
KPX v a -15

KPX w period -32
KPX w o -15
KPX w comma -32

KPX e e -7

KPX y period -65
KPX y o -20
KPX y e -7
KPX y comma -65
KPX y a -24

KPX z e 8
EndKernPairs
EndKernData
StartComposites 58
Open Source Used In SVO 12.3.0 8564
CC oacute 2 ; PCC o 0 0 ; PCC acute 112 20 ;
CC ocircumflex 2 ; PCC o 0 0 ; PCC circumflex 112 20 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 112 20 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 112 20 ;
CC otilde 2 ; PCC o 0 0 ; PCC tilde 112 12 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 56 8 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 151 20 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 139 20 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 139 20 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 131 20 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 144 20 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 124 20 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 84 8 ;
EndComposites
EndFontMetrics

# Author: Cameron Davidson-Pilon, replicated styles from FiveThirtyEight.com
# See https://www.dataorigami.net/blogs/fivethirtyeight-mpl

lines.linewidth: 4
lines.solid_capstyle: butt

legend.fancybox: true

axes.prop_cycle: cycler('color', ['008fd5', 'fc4f30', 'e5ae38', '6d904f', '8b8b8b', '810f7c'])
axes.facecolor: f0f0f0
axes.labelsize: large
axes.axisbelow: true
axes.grid: true
axes.edgecolor: f0f0f0
axes.linewidth: 3.0
axes.titlesize: x-large

patch.edgecolor: f0f0f0
patch.linewidth: 0.5

svg.fonttype: path

grid.linestyle: -
grid.linewidth: 1.0
grid.color: cbcbcb

xtick.major.size: 0
xtick.minor.size: 0
ytick.major.size: 0
ytick.minor.size: 0

font.size:14.0
BaKoMa Fonts Licence

This licence covers two font packs (known as BaKoMa Fonts Colelction, which is available at `CTAN:fonts/cm/ps-type1/bakoma/'):

1) BaKoMa-CM (1.1/12-Nov-94)
   Computer Modern Fonts in PostScript Type 1 and TrueType font formats.

2) BaKoMa-AMS (1.2/19-Jan-95)
   AMS TeX fonts in PostScript Type 1 and TrueType font formats.

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Moscow Region
142281 PROTVINO
RUSSIA

E-Mail: bakoma@mail.ru
ormalychev@mail.ihep.ru
$Pa@i
/Xm`SPG;0/5:6$  
2Bb84x
}]Tm!*HrE)

7E:\:^CJ^T[^@E]^(%Y]=AF+v[:DI?VE\{I?YK^*O0o5=udR][eREEXI+n#  
'YQ1[n6z~y6][|naAE: %"$ %97
(/M_Ino\mgd\bhorg[Xc1\NCIPWSKMSYND\BC}4\j.k}@Vei[8xjik4#^=0=&&fTS^yhr:6#*sW]Wj5^zK$Sx3^z#p:P\D  
n2G^PogYP^_Ci_dshhbo@rf]  
[*HV?i]J)[|r};<A4f:  
L,[5h$S>$

wdv.]{!VzbS[55$!-581#')<!!*$3CUeilmhba`dnmvwqdVS^}`MCJRTRKMRU\K@?7(-SR~DrG  
m'(S&1)=^Z?*,^d,U[gl|[s_3Yx(LeZ]s5=G^a`ywl`]hcJoR9,"##/4Mn+e[V1S9]f[f  
0iU~ hXT%X^@~4EkFIdp-t!]4


b\  
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6mTK\{C"%4<=7-!"/37="!"! -@Sej\ha__bjv{yoeYTXebRI\KPMMOQNC87:5$5\U5v#Ne];:+  
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%Qv?g???pKT\O\WecTjkfdkiY1zV?)*"^Xg8H4N  
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5aO\@INDDUg\juy\"BbHHMT\as\KC\p.00s0Hr5!X  
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}Fr%&\xeC\x\kF\ul$\bx\e\u\6u\\6v5,\b,dj\p  
'&%!#$s=0xx\wq\t]{[\bo\n;'(A\S\S\{2k/9ZN\#&\" ').&6B0DVbe_,\cb\b\f\j\\kd\d\c.v`\"`\WO\QY{W\PJ@6692%\1R\  
z\S)+]Us\x\E\s4\Cat\Bv\_a\nT7"\3\u\Gp\zQ>68D`pFX-A\UO\47\G82o\b\rb\H\PTL[z\,Uw\VA\75/$  
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3yoda\ORS!u\C\G^:iFih<(- @%  
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)\V\R\p/0.+&\m\d\j)0?@\O[C\q]{o]GE9Z*vK09\ZY\.&v\H\Ne+T2]50]
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% )8hch*!!0=CK^nyxqwb  \
% xEN.%_zA$. @>0  \
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e#/EyO'.9<9-20 &1PGwsZ{E,]hkyzxiv0! !!" ,29ze
X32..)*-.0Cr!(CShrye#066, &)*%Lc]a9@j=zs$!boyR)
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%2j,#sZ<->.CszK.

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3>B=6>>: !")@s?lzIOI@fds)qru[%t!
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!3::
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5vpjO?Cgv|np{vVA=

*Tn.Y-Rssr\[^.,1

3iT9^#Ggz-wz-i[/6G*

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$D[qR.Ogv}|t?u-v9q>"

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$Ew%Nn4}lr|9+
fJe7

4|DTO<e|xn_CJSQ/
KPX P period -128
KPX P comma -129
KPX P A -46

KPX R y -8
KPX R Y -20
KPX R W -24
KPX R V -29
KPX R T -4

KPX T semicolon 5
KPX T s -10
KPX T r 27
KPX T period -122
KPX T o -28
KPX T i 27
KPX T hyphen -10
KPX T e -29
KPX T comma -122
KPX T colon 7
KPX T c -29
KPX T a -24
KPX T A -42

KPX V y 12
KPX V u -11
KPX V semicolon -38
KPX V r -15
KPX V period -105
KPX V o -79
KPX V i 15
KPX V hyphen -10
KPX V e -80
KPX V comma -103
KPX V colon -37
KPX V a -74
KPX V A -88

KPX W y 12
KPX W u -11
KPX W semicolon -38
KPX W r -15
KPX W period -105
KPX W o -78
KPX W i 15
KPX W hyphen -10
KPX W e -79
KPX W comma -103
KPX W colon -37
KPX W a -73
KPX W A -60

KPX Y v 24
KPX Y u -13
KPX Y semicolon -34
KPX Y q -66
KPX Y period -105
KPX Y p -23
KPX Y o -66
KPX Y i 2
KPX Y hyphen -10
KPX Y e -67
KPX Y comma -103
KPX Y colon -32
KPX Y a -60
KPX Y A -56

KPX f f 21

KPX r q -9
KPX r period -102
KPX r o -9
KPX r n 20
KPX r m 20
KPX r hyphen -10
KPX r h -23
KPX r g -9
KPX r f 20
KPX r e -10
KPX r d -10
KPX r comma -101
KPX r c -9

EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 160 179 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 110 179 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 110 179 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 160 179 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 190 179 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 179 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 160 179 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 110 179 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 110 179 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 160 179 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 0 179 ;
C -1 ; WX 760 ; N Eth ; B 140 805 681 ;
C -1 ; WX 400 ; N degree ; B 130 398 430 698 ;
C -1 ; WX 660 ; N Yacute ; B 72 0 817 937 ;
C -1 ; WX 760 ; N Ocircumflex ; B 78 -17 806 915 ;
C -1 ; WX 600 ; N oacute ; B 59 -8 627 771 ;
C -1 ; WX 680 ; N mu ; B 54 -213 720 507 ;
C -1 ; WX 600 ; N minus ; B 91 207 595 323 ;
C -1 ; WX 600 ; N eth ; B 59 -8 662 741 ;
C -1 ; WX 600 ; N odieresis ; B 59 -8 627 734 ;
C -1 ; WX 780 ; N copyright ; B 83 -17 783 698 ;
C -1 ; WX 620 ; N brokenbar ; B 303 -175 422 675 ;
EndCharMetrics
StartKernData
StartKernPairs 92

KPX A y 20
KPX A w 20
KPX A v 20
KPX A Y -25
KPX A W -35
KPX A V -40
KPX A T -17

KPX F period -105
KPX F comma -98
KPX F A -35

KPX L y 62
KPX L Y -5
KPX L W -15
KPX L V -19
KPX L T -26

KPX P period -105
KPX P comma -98
KPX P A -31

KPX R y 27
KPX R Y 4
KPX R W -4
KPX R V -8
KPX R T -3

KPX T y 56
KPX T w 69
KPX T u 42
KPX Tsemicolon 31
KPX T s -1
KPX Y e -46
KPX Y comma -106
KPX Y colon -9
KPX Y a -45
KPX Y A -30

KPX f f 10

KPX r q -3
KPX r period -120
KPX r o -1
KPX r n 39
KPX r m 39
KPX r hyphen -20
KPX r h -35
KPX r g -23
KPX r f 42
KPX r e -6
KPX r d -3
KPX r comma -113
KPX r c -5

EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 190 166 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 120 166 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 100 166 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 170 166 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 200 166 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 166 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 190 166 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 120 166 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 100 166 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 170 166 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 190 166 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 120 166 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -70 166 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 120 166 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 130 166 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 190 166 ;
CC Ocute 2 ; PCC O 0 0 ; PCC acute 120 166 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 140 166 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 140 166 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 190 166 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 140 166 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 110 166 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 200 166 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 130 166 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 130 166 ;
KPX space quoteleft -37
KPX space quotedblleft -37
KPX space Y -37
KPX space W -37
KPX space V -37
KPX space T -37
KPX space A -37

KPX v period -125
KPX v comma -125

KPX w period -125
KPX w comma -125
KPX w a -18

KPX y period -125
KPX y comma -125
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 238 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 238 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 238 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 238 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 195 243 ;
CC Atild 2 ; PCC A 0 0 ; PCC tilde 195 238 ;
CC Ecute 2 ; PCC E 0 0 ; PCC acute 195 238 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 195 238 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 195 238 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 195 238 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 37 238 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 37 238 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 37 238 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 37 238 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 241 238 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 238 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 238 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 238 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 238 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 238 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 149 238 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 241 238 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 241 238 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 241 238 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 241 238 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 216 238 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 186 238 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 238 ;
CapHeight 708
XHeight 438
Ascender 714
Descender -314
StartCharMetrics 228
C 32 ; WX 220 ; N space ; B 0 0 0 0 ;
C 33 ; WX 280 ; N exclam ; B 119 -14 353 610 ;
C 34 ; WX 220 ; N quotedbl ; B 120 343 333 610 ;
C 35 ; WX 440 ; N numbersign ; B 83 0 521 594 ;
C 36 ; WX 440 ; N dollar ; B 60 -144 508 709 ;
C 37 ; WX 680 ; N percent ; B 132 -160 710 700 ;
C 38 ; WX 780 ; N ampersand ; B 126 -16 915 610 ;
C 39 ; WX 240 ; N quoteright ; B 168 437 333 610 ;
C 40 ; WX 260 ; N parenleft ; B 96 -216 411 664 ;
C 41 ; WX 220 ; N parenright ; B -13 -216 302 664 ;
C 42 ; WX 420 ; N asterisk ; B 139 263 479 610 ;
C 43 ; WX 520 ; N plus ; B 117 0 543 426 ;
C 44 ; WX 220 ; N comma ; B 25 -140 213 148 ;
C 45 ; WX 280 ; N hyphen ; B 69 190 334 248 ;
C 46 ; WX 220 ; N period ; B 102 -14 228 128 ;
C 47 ; WX 340 ; N slash ; B 74 -16 458 610 ;
C 48 ; WX 440 ; N zero ; B 79 -16 538 610 ;
C 49 ; WX 440 ; N one ; B 41 0 428 610 ;
C 50 ; WX 440 ; N two ; B 17 -16 485 610 ;
C 51 ; WX 440 ; N three ; B 1 -16 485 610 ;
C 52 ; WX 440 ; N four ; B 77 -33 499 610 ;
C 53 ; WX 440 ; N five ; B 60 -16 595 679 ;
C 54 ; WX 440 ; N six ; B 90 -16 556 610 ;
C 55 ; WX 440 ; N seven ; B 157 -33 561 645 ;
C 56 ; WX 440 ; N eight ; B 65 -16 529 610 ;
C 57 ; WX 440 ; N nine ; B 32 -16 517 610 ;
C 58 ; WX 260 ; N colon ; B 98 -14 296 438 ;
C 59 ; WX 240 ; N semicolon ; B 29 -140 299 438 ;
C 60 ; WX 520 ; N less ; B 139 0 527 468 ;
C 61 ; WX 520 ; N equal ; B 117 86 543 340 ;
C 62 ; WX 520 ; N greater ; B 139 0 527 468 ;
C 63 ; WX 380 ; N question ; B 150 -14 455 610 ;
C 64 ; WX 700 ; N at ; B 127 -16 753 610 ;
C 65 ; WX 620 ; N A ; B 13 -16 697 632 ;
C 66 ; WX 600 ; N B ; B 85 -6 674 640 ;
C 67 ; WX 520 ; N C ; B 93 -16 631 610 ;
C 68 ; WX 700 ; N D ; B 86 -6 768 640 ;
C 69 ; WX 620 ; N E ; B 91 -12 709 618 ;
C 70 ; WX 580 ; N F ; B 120 -118 793 629 ;
C 71 ; WX 620 ; N G ; B 148 -242 709 610 ;
C 72 ; WX 680 ; N H ; B 18 -16 878 708 ;
C 73 ; WX 380 ; N I ; B 99 0 504 594 ;
C 74 ; WX 400 ; N J ; B -14 -147 538 594 ;
C -1 ; WX 740 ; N Ugrave ; B 126 -16 792 821 ;
C -1 ; WX 660 ; N onequarter ; B 56 -16 702 610 ;
C -1 ; WX 740 ; N UCircumflex ; B 126 -16 792 821 ;
C -1 ; WX 460 ; N Scaron ; B 45 -81 594 831 ;
C -1 ; WX 380 ; N Idieresis ; B 99 0 519 762 ;
C -1 ; WX 240 ; N idieresis ; B 100 -14 369 610 ;
C -1 ; WX 620 ; N Egrave ; B 91 -12 709 821 ;
C -1 ; WX 600 ; N Oacute ; B 94 -16 660 821 ;
C -1 ; WX 520 ; N divide ; B 117 -14 543 440 ;
C -1 ; WX 620 ; N Ntilde ; B 13 -16 702 771 ;
C -1 ; WX 620 ; N Odieresis ; B 94 -16 660 762 ;
C -1 ; WX 620 ; N Adieresis ; B 13 -16 709 762 ;
C -1 ; WX 700 ; N Ntilde ; B 85 -16 915 761 ;
C -1 ; WX 620 ; N Zcaron ; B 42 -19 669 831 ;
C -1 ; WX 540 ; N Thorn ; B 52 0 647 610 ;
C -1 ; WX 380 ; N Iacute ; B 99 0 532 821 ;
C -1 ; WX 520 ; N plusminus ; B 117 0 543 436 ;
C -1 ; WX 520 ; N multiply ; B 133 16 527 410 ;
C -1 ; WX 620 ; N Yacute ; B 41 -168 774 821 ;
C -1 ; WX 560 ; N Ydieresis ; B 41 -168 774 762 ;
C -1 ; WX 264 ; N onesuperior ; B 83 244 311 610 ;
C -1 ; WX 460 ; N ugrave ; B 102 -14 528 659 ;
C -1 ; WX 520 ; N logicalnot ; B 117 86 543 340 ;
C -1 ; WX 460 ; N ntilde ; B 101 -14 544 619 ;
C -1 ; WX 600 ; N Otilde ; B 94 -16 660 761 ;
C -1 ; WX 400 ; N otilde ; B 87 -14 502 619 ;
C -1 ; WX 520 ; N Ccedilla ; B 93 -191 631 610 ;
C -1 ; WX 620 ; N Agrave ; B 13 -16 697 821 ;
C -1 ; WX 660 ; N onehalf ; B 56 -16 702 610 ;
C -1 ; WX 700 ; N Eth ; B 86 -6 768 640 ;
C -1 ; WX 400 ; N degree ; B 171 324 457 610 ;
C -1 ; WX 560 ; N Yacute ; B 41 -168 774 821 ;
C -1 ; WX 600 ; N Ocircumflex ; B 94 -16 660 821 ;
C -1 ; WX 400 ; N oacute ; B 87 -14 482 659 ;
C -1 ; WX 460 ; N mu ; B 7 -314 523 438 ;
C -1 ; WX 520 ; N minus ; B 117 184 543 242 ;
C -1 ; WX 400 ; N eth ; B 87 -14 522 714 ;
C -1 ; WX 400 ; N odieresis ; B 87 -14 479 610 ;
C -1 ; WX 740 ; N copyright ; B 137 -16 763 610 ;
C -1 ; WX 520 ; N brokenbar ; B 320 -16 378 714 ;
EndCharMetrics
StartKernData
StartKernPairs 131

KPX A quoterright -40
KPX A quotedblright -40
KPX A U -10
KPX R T 20
KPX T o -20
KPX T i 20
KPX T hyphen -20
KPX T h 20
KPX T e -20
KPX T a -20
KPX T O 30
KPX T A 10

KPX V period -100
KPX V o -20
KPX V e -20
KPX V comma -90
KPX V a -20
KPX V O 10
KPX V G -20

KPX W period -50
KPX W o -20
KPX W i 10
KPX W h 10
KPX W e -20
KPX W comma -40
KPX W a -20
KPX W O 10

KPX Y u -20
KPX Y period -50
KPX Y o -50
KPX Y i 10
KPX Y e -40
KPX Y comma -40
KPX Y a -60

KPX b period -30
KPX b l -20
KPX b comma -20
KPX b b -20

KPX c k -10

KPX comma quoteright -70
KPX comma quotedblright -70

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# Seaborn common parameters

#.15 = dark_gray
#.8 = light_gray

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figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, DejaVu Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round
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# Seaborn darkgrid parameters

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axes.grid: True
axes.facecolor: EAEAF2
axes.edgcolor: white
axes.linewidth: 0
grid.color: white
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
P6
24 24
255
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Comment VMusage 24225 31117
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FullName ITC Avant Garde Gothic Book
FamilyName ITC Avant Garde Gothic
Weight Book
ItalicAngle 0
IsFixedPitch false
FontBBox -113 -222 1148 955
UnderlinePosition -100
UnderlineThickness 50
Version 001.006
EncodingScheme AdobeStandardEncoding
CapHeight 740
XHeight 547
Ascender 740
Descender -192
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C 34 ; WX 309 ; N quotedbl ; B 36 444 273 740 ;
C 35 ; WX 554 ; N numbersign ; B 33 0 521 740 ;
C 36 ; WX 554 ; N dollar ; B 70 -70 485 811 ;
C 37 ; WX 775 ; N percent ; B 21 -13 753 751 ;
C 38 ; WX 757 ; N ampersand ; B 56 -12 736 753 ;
C 39 ; WX 351 ; N quotersign ; B 94 546 256 740 ;
C 40 ; WX 369 ; N parenleft ; B 47 -205 355 757 ;
C 41 ; WX 369 ; N parenright ; B 14 -205 322 757 ;
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C 43 ; WX 606 ; N plus ; B 51 0 555 506 ;
C 44 ; WX 277 ; N comma ; B 14 -67 176 126 ;
C 45 ; WX 332 ; N hyphen ; B 30 248 302 315 ;
C 46 ; WX 277 ; N period ; B 102 0 176 126 ;
C 47 ; WX 437 ; N slash ; B 44 -100 403 740 ;
C 48 ; WX 554 ; N zero ; B 29 -13 525 753 ;
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C 54 ; WX 554 ; N six ; B 24 -13 530 753 ;
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C 57 ; WX 554 ; N nine ; B 24 0 530 752 ;
C 58 ; WX 277 ; N colon ; B 102 0 176 548 ;
C 59 ; WX 277 ; N semicolon ; B 14 -67 176 548 ;
C 60 ; WX 606 ; N less ; B 46 -8 554 514 ;
C 195 ; WX 502 ; N circumflex ; B 74 639 428 764 ;
C 196 ; WX 439 ; N tilde ; B 47 651 392 754 ;
C 197 ; WX 485 ; N macron ; B 73 669 411 736 ;
C 198 ; WX 453 ; N breve ; B 52 651 401 754 ;
C 199 ; WX 222 ; N dotaccent ; B 74 639 148 765 ;
C 200 ; WX 369 ; N dieresis ; B 73 639 295 765 ;
C 202 ; WX 332 ; N ring ; B 62 600 269 807 ;
C 203 ; WX 324 ; N cedilla ; B 80 -222 254 0 ;
C 205 ; WX 552 ; N hungarumlaut ; B 119 605 453 800 ;
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KPX b v -20

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KPX c k -15

KPX comma space -110
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KPX comma quotedblright -120

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KPX e v -20

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KPX m u -20
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KPX o y -20
KPX o x -15
The STIX fonts distributed with matplotlib have been modified from their canonical form. They have been converted from OTF to TTF format using Fontforge and this script:

```bash
#!/usr/bin/env fontforge
i=1
```

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CC Otilde 2 ; PCC O 0 0 ; PCC tilde 215 163 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron -2 163 ;
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CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 77 163 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 143 163 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 119 163 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 154 0 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 112 163 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron -11 163 ;
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CC agrave 2 ; PCC a 0 0 ; PCC grave 153 0 ;
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CC eacute 2 ; PCC e 0 0 ; PCC acute 138 0 ;
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CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 141 0 ;
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CC idieresis 2 ; PCC ic 0 0 ; PCC dieresis -84 0 ;
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CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 143 0 ;
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EndComposites
EndFontMetrics

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while ( i<$argc )
  Open($argv[i])
  Generate($argv[i]:r + ".ttf")
  i = i+1
endloop

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24 May 2010

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StartFontMetrics 2.0
Comment Creation Date: Thu Jun 21 22:23:28 1990
Comment UniqueID 5000793
FontName CMR10
EncodingScheme FontSpecific
FullName CMR10
FamilyName Computer Modern
Weight Medium
ItalicAngle 0.0
IsFixedPitch false
Version 1.00B
Notice Copyright (c) 1997 American Mathematical Society. All Rights Reserved.
Comment Computer Modern fonts were designed by Donald E. Knuth
FontBBox -40 -250 1009 969
CapHeight 683.333
XHeight 430.556
Ascender 694.444
Descender -194.444
Comment FontID CMR
Comment DesignSize 10 (pts)
Comment CharacterCodingScheme TeX text
Comment Space 333.333 166.667 111.111
Comment ExtraSpace 111.111
Comment Quad 1000
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C 49 ; WX 500 ; N one ; B 89 0 419 666 ;
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C 61 ; WX 777.778 ; N equal ; B 56 133 721 367 ;
C 62 ; WX 472.222 ; N questiondown ; B 56 -205 415 500 ;
C 63 ; WX 472.222 ; N question ; B 56 0 415 705 ; L quoteleft questiondown ;
C 64 ; WX 777.778 ; N at ; B 56 -11 721 705 ;
C 65 ; WX 750 ; N A ; B 32 0 717 716 ;
C 66 ; WX 708.333 ; N B ; B 36 0 651 683 ;
C 67 ; WX 722.222 ; N C ; B 56 -22 665 705 ;
C 68 ; WX 763.889 ; N D ; B 35 0 707 683 ;
C 69 ; WX 680.556 ; N E ; B 33 0 652 680 ;
C 70 ; WX 652.778 ; N F ; B 33 0 610 680 ;
C 71 ; WX 784.722 ; N G ; B 56 -22 735 705 ;
C 72 ; WX 750 ; N H ; B 33 0 716 683 ;
C 73 ; WX 361.111 ; N I ; B 28 0 333 683 ;
C 74 ; WX 513.889 ; N J ; B 41 -22 465 683 ;
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C 88 ; WX 750 ; N X ; B 24 0 726 683 ;
C 89 ; WX 750 ; N Y ; B 11 0 738 683 ;
C 90 ; WX 611.111 ; N Z ; B 56 0 560 683 ;
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KPX T a -83.333
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KPX V u -83.333
KPX V A -111.111
KPX V O -111.111
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KPX V Q -27.778
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KPX Y A -83.333
KPX Y u -83.333
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KPX a y -27.778
KPX a w -27.778
KPX b e 27.778
KPX b o 27.778
KPX b x -27.778
KPX b d 27.778
Ascender 720

StartCharMetrics 228

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C 33 ; WX 333 ; N exclam ; B 130 0 203 720 ;
C 34 ; WX 278 ; N quotedbl ; B 57 494 220 720 ;
C 35 ; WX 556 ; N numbersign ; B 27 0 530 698 ;
C 36 ; WX 556 ; N dollar ; B 37 -95 518 766 ;
C 37 ; WX 889 ; N percent ; B 67 -14 821 705 ;
C 38 ; WX 667 ; N ampersand ; B 41 -19 644 720 ;
C 39 ; WX 222 ; N quoteright ; B 80 191 277 739 ;
C 40 ; WX 333 ; N parenleft ; B 55 -191 278 739 ;
C 41 ; WX 333 ; N parenright ; B 56 -191 278 739 ;
C 42 ; WX 389 ; N asterisk ; B 44 495 344 720 ;
C 43 ; WX 660 ; N plus ; B 80 0 580 500 ;
C 44 ; WX 278 ; N comma ; B 102 -137 175 88 ;
C 45 ; WX 333 ; N hyphen ; B 40 229 293 291 ;
C 46 ; WX 278 ; N period ; B 102 0 175 88 ;
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C 57 ; WX 556 ; N nine ; B 41 -14 515 705 ;
C 58 ; WX 278 ; N colon ; B 102 0 175 492 ;
C 59 ; WX 278 ; N semicolon ; B 102 -137 175 492 ;
C 60 ; WX 660 ; N less ; B 80 -6 580 505 ;
C 61 ; WX 660 ; N equal ; B 80 124 580 378 ;
C 62 ; WX 660 ; N greater ; B 80 -6 580 505 ;
C 63 ; WX 500 ; N question ; B 37 0 472 739 ;
C 64 ; WX 800 ; N at ; B 40 -19 760 739 ;
C 65 ; WX 667 ; N A ; B 15 0 651 720 ;
C 66 ; WX 667 ; N B ; B 81 0 610 720 ;
C 67 ; WX 722 ; N C ; B 48 -19 670 739 ;
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C 73 ; WX 278 ; N I ; B 105 0 173 720 ;
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C 75 ; WX 667 ; N K ; B 85 0 649 720 ;
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KPX r w 0
KPX r v 0
KPX r u 0
KPX r t 18
KPX r r 0
KPX r quoteright 0
KPX r q -18
KPX r period -92
KPX r o -18
KPX r n 18
KPX r m 18
KPX r hyphen -55
KPX r h 0
KPX r g 0
KPX r f 18
KPX r e -18
KPX r d -18
KPX r comma -92
KPX r c -18

KPX v period -74
KPX v comma -74

KPX w period -55
KPX w comma -55

KPX y period -92
KPX y comma -92
EndKernPairs
EndKernData
StartComposites 58
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 139 202 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 83 0 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 139 202 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 83 0 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 194 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 111 0 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 139 202 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 83 0 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 139 202 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 83 0 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 194 202 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 194 202 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 194 202 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 194 202 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 111 0 ;
CC ucircumflex 2 ; PCC u 0 0 ; PCC circumflex 111 0 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 111 0 ;
Open Source Used In SVO 12.3.0 8716
1.763 libjpeg 6b

1.763.1 Notifications:
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1.763.2 Available under license:
The Independent JPEG Group's JPEG software

README for release 6b of 27-Mar-1998

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larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to
our electronic mailing list. Mailing list members are notified of updates
and have a chance to participate in technical discussions, etc.

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

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

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

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

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.
In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.
The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
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REFERENCES
==========

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

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

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

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

ARCHIVE LOCATIONS
=================

Open Source Used In SVO 12.3.0 8724
The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

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

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

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

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

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

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

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

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

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

FILE FORMAT WARS

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

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

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

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

TO DO

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

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

1.764 reactor-core 1.0.1.RELEASE

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1.766 binutils 2.24

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Version 2, June 1991

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
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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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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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**1.767 commons-io 2.7**

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   b) You must cause the files modified to carry prominent notices
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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
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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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.

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 * 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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/**
 * 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.
Set the `TCP_MD5SIG` option on the socket. See `linux/tcp.h` for more details.

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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollMode.java
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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/netty_epoll_native.c

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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/netty_epoll_linuxsocket.c
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-jar/netty_epoll_linuxsocket.h

1.770 expat 2.1.0-12.el7
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1.771 jetty-security 8.1.14.v20131031
1.772 file 5.11-37.el7

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1.774 apr 1.6.5

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1.776 gnupg 2.0.22 5.el7_5

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Pod::Spec.new do |
  s.name = "DCPathButton"
  s.version = "2.1.1"
  s.summary = " A beautiful button copy from Path® "

  s.description = <<-DESC
DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :)  
DESC

  s.homepage = "https://github.com/Tangdixi/DCPathButton"
s.license = {
:type => 'MIT',
:text => 'The DCPathButton use the MIT license'
}

s.author = {
"Tangdixi" => "Tangdixi@gmail.com"
}

s.platform = :ios, '7.0'

s.source = {
:git => "https://github.com/Tangdixi/DCPathButton.git",
:tag => "2.1.1"
}

s.source_files = 'DCPathButton/Classes/*.{h,m}'

s.resources = ['DCPathButton/Sounds/*']

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires_arc = true

end

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

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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

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

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

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

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

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

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

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

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

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

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

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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.

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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.

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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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.

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

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

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

   You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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TERMS AND CONDITIONS

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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.

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.

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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.

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
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more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
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   d) Convey the object code by offering access from a designated
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1.784 jetty-continuation 9.4.16.v20190411

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

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

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

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

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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

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org.apache.taglibs:taglibs-standard-spec
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```java
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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```java
org.eclipse.jetty.toolchain:jetty-schemas
```

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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
f1c9645d4c14efdc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266e2df05067c18f2c9 bsd.img

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

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfff51a88a050db233418dd73f1e1 bsd.img

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

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfff51a88a050db233418dd73f1e1 bsd.img

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

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfff51a88a050db233418dd73f1e1 bsd.img
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>__ts_dev__1</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
2e1cee529cb59c9341afe0443f196a1 bsd.img

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

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

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsizembizcepg]
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--------

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Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsizembizcepg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

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.

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

1.794 psmisc 22.21-r0.2.12
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2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
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* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/core/Pausable.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/support/management/metrics/GaugeFacade.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/support/management/metrics/CounterFacade.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/support/ObjectStringMapBuilder.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/annotation/EndpointId.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/dsl/context/IntegrationFlowContext.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/acks/AckUtils.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/config/IntegrationSimpleEvaluationContextFactoryBean.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/endpoint/MessageSourcePollingTemplate.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/support/NullAwarePayloadArgumentResolver.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/support/management/metrics/MetricsCaptor.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/acks/AcknowledgmentCallback.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/support/StringObjectMapBuilder.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/support/management/metrics/TimerFacade.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/support/management/micrometer/MicrometerMetricsCaptor.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-jar/org/springframework/integration/aop/MessagemSourceMutator.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
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 */

Found in path(s):

* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/dsl/ConsumerEndpointSpec.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/dsl/PollerSpec.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/transaction/TransactionHandleMessageAdvice.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/transaction/TransactionInterceptorBuilder.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/dsl/DelayerEndpointSpec.java
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* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/support/management/ExponentialMovingAverageRatio.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/support/management/ExponentialMovingAverageRate.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/support/management/DefaultMessageChannelMetrics.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/support/management/AggregatingMessageChannelMetrics.java
* /opt/cola/permits/1140681932_1614870553.78/0/spring-integration-core-5-2-5-release-sources-3-
  jar/org/springframework/integration/support/management/ExponentialMovingAverage.java

1.803 libxcursor 1.1.15 1.el7
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1.804 pip 21.1.2

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

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

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

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

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file (certdata.txt). This file can be found in the mozilla source tree:
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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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"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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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.

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Found in path(s):
* /opt/cola/permits/1194549580_1629468232.59/0/jheaps-0-11-sources-1-jar/META-
  INF/maven/org.jheaps/jheaps/pom.xml

1.819 udev 230+git0+3a74d4fc90-r0.25
1.819.1 Available under license :

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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.

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The Red Hat developers, without whom CentOS would look very different

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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>

#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);
    _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
_bcread_rmlzeros (num)
  bc_num num;
{
  /* We can move n_value to point to the first non zero digit! */
  while (*num->n_value == 0 && num->n_len > 1) {
    num->n_value++;
    num->n_len--;
  }
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less 
  than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just 
  compare the magnitudes. */

static int
_bcdo_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);
    }
}
else
{
/* Magnitude of n1 > n2. */
if (!use_sign || n1->n_sign == PLUS)
    return (1);
else
    return (-1);
}
return (1);
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
            {
                /* Magnitude of n1 > n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (1);
                else
                    return (-1);
            }
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
            if (*n2ptr++ != 0)
            {
                /* Magnitude of n1 < n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (-1);
                else
                    return (1);
            }
    }

/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
    return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */
char
bc_is_neg (num)
    bc_num num;
{
     return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
    int count;
    char *nptr;

    /* Quick check. */
    if (num == _zero_) return TRUE;

    /* Initialize */
    count = num->n_len + num->n_scale;
    nptr = num->n_value;

    /* The check */
    while ((count > 0) && (*nptr++ == 0)) count--;

    if (count != 0)
        return FALSE;
    else
        return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
   Specifically, all but the last digit is 0 and the last digit is 1.
   Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
    int count;
    char *nptr;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;

    /* Error checking */
    if (scale > num->n_scale)
        scale = num->n_scale;
/* Initialize */
count = num->n_len + scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0 && (count != 1 || *--nptr != 1))
    return FALSE;
else
    return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
   returned. The signs of N1 and N2 are ignored.
   SCALE_MIN is to set the minimum scale of the result. */
static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
    sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > sum_scale)
    {
        sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
        for (count = scale_min - sum_scale; count > 0; count--)
            *sumptr++ = 0;
    }

    /* Start with the fraction part. Initialize the pointers. */
    n1bytes = n1->n_scale;
    n2bytes = n2->n_scale;
    n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction. */
if (n1bytes != n2bytes)
    {
        if (n1bytes > n2bytes)
            while (n1bytes > n2bytes)
                { *sumptr-- = *n1ptr--; n1bytes--; }
        else
            while (n2bytes > n1bytes)
                { *sumptr-- = *n2ptr--; n2bytes--; }
    }

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while (((n1bytes > 0) && (n2bytes > 0))
    {
        *sumptr = *n1ptr-- + *n2ptr-- + carry;
        if (*sumptr > (BASE-1))
            {
                carry = 1;
                *sumptr -= BASE;
            }
        else
            carry = 0;
        sumptr--;
        n1bytes--;
        n2bytes--;
    }

/* Now add carry the longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
    {
        *sumptr = *n1ptr-- + carry;
        if (*sumptr > (BASE-1))
            {
                carry = 1;
                *sumptr -= BASE;
            }
        else
            carry = 0;
        sumptr--;
    }
/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
}

/* Perform subtraction: N2 is subtracted from N1 and the value is returned. The signs of N1 and N2 are ignored. Also, N1 is assumed to be larger than N2. SCALE_MIN is the minimum scale of the result. */
static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;

    /* Allocate temporary storage. */
    diff_len = MAX (n1->n_len, n2->n_len);
    diff_scale = MAX (n1->n_scale, n2->n_scale);
    min_len = MIN  (n1->n_len, n2->n_len);
    min_scale = MIN (n1->n_scale, n2->n_scale);
    diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > diff_scale)
    {
        diffptr = (char *) (diff->n_value + diff_len + diff_scale);
        for (count = scale_min - diff_scale; count > 0; count--)
            *diffptr++ = 0;
    }

    /* Initialize the subtract. */
    n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
    n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
    diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

    /* Subtract the numbers. */
    borrow = 0;
/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
        *diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
    {
        val = - *n2ptr-- - borrow;
        if (val < 0)
            val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;
    *diffptr-- = val;
}
}

/* Now do the equal length scale and integer parts. */
for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
        val += BASE;
    borrow = 1;
}
else
    borrow = 0;
*diffptr-- = val;
}

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
{
    for (count = diff_len - min_len; count > 0; count--)
    {
        val = *n1ptr-- - borrow;
        if (val < 0)
        {
            val += BASE;
            borrow = 1;
        }
        else
            borrow = 0;
        *diffptr-- = val;
    }
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));
            break;
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;
    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! */

            break;
        }
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);
broadcast;
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;
}
}
/* 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
_bcsimp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
        int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end; /* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) ((*prod)->n_value + prodlen - 1);
    sum = 0;

    /* Here is the loop... */
    for (indx = 0; indx < prodlen-1; indx++)
    {
        n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
        n2ptr = (char *) (n2end - MIN(indx, n2len-1));
        while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
            sum += *n1ptr-- * *n2ptr++;
        *pvptr-- = sum % BASE;
        sum = sum / BASE;
    }
    *pvptr = sum;

    /* A special adder/subtractor for the recursive divide and conquer multiply algorithm. Note: if sub is called, accum must be larger that what is being subtracted. Also, accum and val must have n_scale = 0. (e.g. they must look like integers. *) */
    static void
    _bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
    {
        signed char *accp, *valp;
        int count, carry;

        count = val->n_len;
        if (val->n_value[0] == 0)
            count--;
        assert (accum->n_len+accum->n_scale >= shift+count);
/* Set up pointers and others */
accp = (signed char *)(accum->n_value +
accum->n_len + accum->n_scale - shift - 1);
valp = (signed char *)(val->n_value + val->n_len - 1);
carry = 0;

if (sub) {
    /* Subtraction, carry is really borrow. */
    while (count--) {
        *accp -= *valp-- + carry;
        if (*accp < 0) { 
carry = 1;
            *accp-- += BASE;
        } 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 $u = u0 + u1 \times (b^n)$
Let $v = v0 + v1 \times (b^n)$

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, m1zero;
    int d1len, d2len;

    /* Base case? */
    if ((ulen+vlen) < mul_base_digits
        || ulen < MUL_SMALL_DIGITS
        || vlen < MUL_SMALL_DIGITS ) {
        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
        return;
    }

    /* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;

    /* Split u and v. */
    if (ulen < n) {
        u1 = bc_copy_num (_zero_);
        u0 = new_sub_num (ulen,0, u->n_value);
    } else {
        u1 = new_sub_num (ulen-n, 0, u->n_value+ulen-n);
        u0 = new_sub_num (n, 0, u->n_value+ulen-n);
    }
    if (vlen < n) {
        v1 = bc_copy_num (_zero_);
        v0 = new_sub_num (vlen,0, v->n_value);
    } else {
        v1 = new_sub_num (vlen-n, 0, v->n_value);
        v0 = new_sub_num (n, 0, v->n_value+vlen-n);
    }
    _bc_rm_leading_zeros (u1);
    _bc_rm_leading_zeros (u0);
    u0len = u0->n_len;
    _bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);

v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;

/* Do recursive multiplies and shifted adds. */
if (m1zero)
    m1 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
    m2 = bc_copy_num (_zero_);
else
    _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
    m3 = bc_copy_num (_zero_);
else
    _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
    _bc_shift_addsub (*prod, m1, 2*n, 0);
    _bc_shift_addsub (*prod, m1, n, 0);
}

_bc_shift_addsub (*prod, m3, n, 0);
_bc_shift_addsub (*prod, m3, 0, 0);
_bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bcd_free_num (&m2);
bcd_free_num (&m3);
bcd_free_num (&d1);
bcd_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
*/

void
bc_multiply (n1, n2, prod, scale)
        bc_num n1, n2, *prod;
        int scale;
{
        bc_num pval;
        int len1, len2;
        int full_scale, prod_scale;

        /* Initialize things. */
        len1 = n1->n_len + n1->n_scale;
        len2 = n2->n_len + n2->n_scale;
        full_scale = n1->n_scale + n2->n_scale;
        prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

        /* Do the multiply */
        _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

        /* Assign to prod and clean up the number. */
        pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
        pval->n_value = pval->n_ptr;
        pval->n_len = len2 + len1 + 1 - full_scale;
        pval->n_scale = prod_scale;
        _bc_rm_leading_zeros (pval);
        if (bc_is_zero (pval))
                pval->n_sign = PLUS;
        bc_free_num (prod);
        *prod = pval;
}

/* Some utility routines for the divide:  First a one digit multiply.
NUM (with SIZE digits) is multiplied by DIGIT and the result is
placed into RESULT.  It is written so that NUM and RESULT can be
the same pointers.  */

static void
_one_mult (num, size, digit, result)
unsigned char *num;
int size, digit;
unsigned char *result;
{
int carry, value;
unsigned char *nptr, *rptr;

if (digit == 0)
    memset(result, 0, size);
else
{
    if (digit == 1)
        memcpy(result, num, size);
    else
{
    /* 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;
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;
n2ptr = num2;
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--; /* And again. */
}

/* 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--; /* And again. */
    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);
broadcast(&temp);
/* Calculate it. */
broadcast (num1, num2, &temp, scale);
if (quot)
  quotient = bc_copy_num (temp);
broadcast (temp, num2, &temp, rscale);
broadcast (num1, temp, rem, rscale);
broadcast (&temp);
if (quot)
  { 
    broadcast (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_raisedmod (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 (power);
broadcast (exponent);
broadcast (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
bc_raise (num1, num2, result, scale)
   bc_num num1, num2, *result;
   int scale;
{
   bc_num temp, power;
   long exponent;
   int rscale;
   int pwrscale;
   int calcscale;
   char neg;

   /* Check the exponent for scale digits and convert to a long. */
   if (num2->n_scale != 0)
      bc_rt_warn("non-zero scale in exponent");
   exponent = bc_num2long (num2);
   if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
      bc_rt_error("exponent too large in raise");

   /* Special case if exponent is a zero. */
   if (exponent == 0)
      { 
      bc_free_num (result);
      *result = bc_copy_num (_one_);
      return;
      }

   /* Other initializations. */
   if (exponent < 0)
      { 
      neg = TRUE;
      exponent = -exponent;
      rscale = scale;
      }
   else
      { 
      neg = FALSE;
      rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
      }

   /* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
}

/* 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;
{
/* Initial checks. */
cmp_res = bc_compare (*num, _zero_);
if (cmp_res < 0)
    return 0; /* error */
else
    
    if (cmp_res == 0)
    {
        bc_free_num (num);
        *num = bc_copy_num (_zero_);
        return 1;
    }
    
    cmp_res = bc_compare (*num, _one_);
    if (cmp_res == 0)
    {
        bc_free_num (num);
        *num = bc_copy_num (_one_);
        return 1;
    }

    /* Initialize the variables. */
    rscale = MAX (scale, (*num)->n_scale);
    bc_init_num(&guess);
    bc_init_num(&guess1);
    bc_init_num(&diff);
    point5 = bc_new_num (1,1);
    point5->n_value[1] = 5;

    /* Calculate the initial guess. */
    if (cmp_res < 0)
    {
        /* The number is between 0 and 1. Guess should start at 1. */
        guess = bc_copy_num (_one_);
        cscale = (*num)->n_scale;
    }
    else
    {
        /* The number is greater than 1. Guess should start at 10^(exp/2). */
        bc_int2num (&guess,10);

        bc_int2num (&guess1,(*num)->n_len);
        bc_multiply (guess1, point5, &guess1, 0);
guess1->n_scale = 0;
bc_raise (guess, guess1, &guess, 0);
bcp_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);
bcp_divide (*num, guess, &guess, cscale);
bcp_add (guess, guess1, &guess, 0);
bcp_multiply (guess, point5, &guess, cscale);
bcp_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. */
bcp_free_num (num);
bcp_divide (guess, _one_, num, rscale);
bcp_free_num (&guess);
bcp_free_num (&guess1);
bcp_free_num (&point5);
bcp_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++)
        (*out_char) (digits[ix]);
}

/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#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;
        if (num->n_len > 1 || *nptr != 0)
            for (index=num->n_len; index>0; index--)
                (*out_char) (BCD_CHAR(*nptr++));
        else
            nptr++;
        if (leading_zero && bc_is_zero (num))
            (*out_char) ('0');

        /* Now the fraction. */
        if (num->n_scale > 0)
            { /* out_char) ('.');
                for (index=0; index<num->n_scale; index++)
                    (*out_char) (BCD_CHAR(*nptr++));
            }
        else
            { /* special case ... */
        if (leading_zero && bc_is_zero (num))
            (*out_char) ('0');

        /* The number is some other base. */
        digits = NULL;
        bc_init_num (&int_part);
        bc_divide (num, _one_, &int_part, 0);
        bc_init_num (&frac_part);
        bc_init_num (&cur_dig);
        bc_init_num (&base);
        bc_sub (num, int_part, &frac_part, 0);
        /* Make the INT_PART and FRAC_PART positive. */
        int_part->n_sign = PLUS;
        frac_part->n_sign = PLUS;
        bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
bciint2num (&max_o_digit, o_base-1);

/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bc_divide (int_part, base, &int_part, 0);
}

/* Print the digits on the stack. */
if (digits != NULL)
{
    /* Output the digits. */
    while (digits != NULL)
    {
        temp = digits;
        digits = digits->next;
        if (o_base <= 16)
            (*out_char) (ref_str[ (int) temp->digit]);
        else
            bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
        free (temp);
    }
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('.);
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
        bc_sub (frac_part, int_part, &frac_part, 0);
        if (o_base <= 16)
            (*out_char) (ref_str[fdigit]);
        else {
            bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
            pre_space = 1;
        }
    }
}
bc_multiply (t_num, base, &t_num, 0);
bc_free_num (&t_num);
} /* Clean up. */
bc_free_num (&int_part);
broadcast_free (&frac_part);
broadcast_free (&base);
broadcast_free (&cur_dig);
broadcast_free (&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)
broadcast_num num;
{
long val;
char *nptr;
int index;

/* Extract the int value, ignore the fraction. */
val = 0;
nptr = num->n_value;
for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
  val = val*BASE + *nptr++;

/* Check for overflow. If overflow, return zero. */
if (index>0) val = 0;
if (val < 0) val = 0;

/* Return the value. */
if (num->n_sign == PLUS)
  return (val);
else
  return (-val);
}

/* Convert an integer VAL to a bc number NUM. */
void
bc_int2num (num, val)
    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int  ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)
        {
        neg = 1;
        val = -val;
        }

    /* Get things going. */
    bptr = buffer;
    *bptr++ = val % BASE;
    val = val / BASE;

    /* Extract remaining digits. */
    while (val != 0)
        {
        *bptr++ = val % BASE;
        val = val / BASE;
        ix++; /* Count the digits. */
        }

    /* Make the number. */
    bc_free_num (num);
    *num = bc_new_num (ix, 0);
    if (neg) (*num)->n_sign = MINUS;

    /* Assign the digits. */
    vptr = (*num)->n_value;
    while (ix-- > 0)
        *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only. */

char
    *num2str (num)
    bc_num num;
{
    char *str, *sptr;
    char *nptr;
int index, signch;

/* Allocate the string memory. */
signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
if (num->n_scale > 0)
    str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
else
    str = (char *) malloc (num->n_len + 1 + signch);
if (str == NULL) bc_out_of_memory();

/* The negative sign if needed. */
sptr = str;
if (signch) *sptr++ = '-';

/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

/* Now the fraction. */
if (num->n_scale > 0)
{
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr++);
}

/* Terminate the string and return it! */
*sptr = '\0';
return (str);

/* Convert strings to bc numbers. Base 10 only. */

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
    int digits, strscale;
    char *ptr, *nptr;
    char zero_int;

    /* Prepare num. */
    bc_free_num (num);
    /* Check for valid number and count digits. */
    ptr = str;

    /* Prepare number. */
    bc_free_num (num);

    /* Check for valid number and count digits. */
    ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ( (*ptr == '+' || (*ptr == '-')) ptr++; /* Sign */
while (*ptr == '0') ptr++; /* Skip leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++; /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '\0' || (digits+strscale == 0))
{
    *num = bc_copy_num (_zero_);
    return;
}
/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
digits = 1;
}
*num = bc_new_num (digits, strscale);
/* Build the whole number. */
ptr = str;
if (*ptr == '.
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
digits = 0;
}
for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr);
/* Build the fractional part. */
if (strscale > 0)
{  
  ptr++;  /* skip the decimal point! */  
  for (;strscale > 0; strscale--)  
    *nptr++ = CH_VAL(*ptr++);  
}  
}  

/* pn prints the number NUM in base 10. */  
static void  
out_char (int c)  
{  
  putchar(c);  
}  

void  
pn (num)  
   bc_num num;  
{  
  bc_out_num (num, 10, out_char, 0);  
  out_char ('n');  
}  

/* pv prints a character array as if it was a string of bcd digits. */  
void  
pv (name, num, len)  
   char *name;  
   unsigned char *num;  
   int len;  
{  
   int i;  
   printf ("%s=", name);  
   for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));  
   printf ("\n");  
}  

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@end subheading END OF TERMS AND CONDITIONS

@page

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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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- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- javaee_5.xsd
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- javaee_web_services_client_1_2.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- 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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1.854 perl 5.22.1
1.854.1 Available under license :

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

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

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

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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
That's all there is to it!

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The End
#!perl
=head1 NAME

copyright.t
=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

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

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

done_testing;

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

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

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

  $year;
}

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

  $year;
}
1.856 javapackages-tools 3.4.1 11.el7

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1.857 tomcat-embed-websocket 9.0.33
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```
ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

---

**1.860 minizip 1.01**

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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {[link ChannelPipeline]}.
 *
 * <h3>Sub-types</h3>
 *
 * {[link ChannelHandler]} itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 * </ul>
 * 
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events</li>
 * <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
 * <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
 * </ul>
For more information, please refer to the documentation of each subtype.

The context object

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`) which is specific to the handler.

State management

A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends `@link SimpleChannelInboundHandler<Message>` {

    `private boolean loggedIn;`

    `@Override`
    public void channelRead0(`@link ChannelHandlerContext` ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            `loggedIn = true;`
        } else if (message instanceof GetDataMessage) {
            if (`loggedIn`) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
```
* // See \@link ChannelInitializer\#initChannel(Channel)\. *
* public class DataServerInitializer extends \@link ChannelInitializer\&\{\@link Channel\}\& \{
*   \@code \@Override
*   public void initChannel(\@link Channel\ channel) {
*       channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*   }
* }
* ...
* </pre>

* </h4>Using \@link 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 \@link AttributeKey\}s which is provided by
* \@link ChannelHandlerContext\}:
* </pre>
* public interface Message {
*   // your methods here
* }
*
* \@code \@Sharable
* public class DataServerHandler extends \@link SimpleChannelInboundHandler</b>\&\{\@link Message\}\& {\@link Boolean\}\&\; auth =
*   \@link AttributeKey\#valueOf(String) AttributeKey.valueOf("auth");
*
*   \@code \@Override
*   public void channelRead(\@link ChannelHandlerContext ctx, Message message) {
*     \@link Attribute\&\{\@link Boolean\}\& attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) o);
*       \b>attr.set(true)</b>;
*     } else (message instanceof GetDataMessage) {
*       if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*       } else {
*         fail();
*       }
*     }
*     ...
* }
* </pre>
* Now that the state of the handler is attached to the \@link ChannelHandlerContext\}, you can add the
* same handler instance to different pipelines:
* </pre>
* public class DataServerInitializer extends \@link ChannelInitializer\&\{\@link Channel\}\& {\@link Channel\}\& {\@link Channel\}}
*
private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();

{ @code @Override
public void initChannel({@link Channel} channel) {
    channel.pipeline().addLast("handler", <b>SHARED</b>);
}
}
</pre>

<h4>The { @code @Sharable} annotation</h4>
<p>In the example above which used an { @link AttributeKey},
you might have noticed the { @code @Sharable} annotation.
</p>
<p>If a { @link ChannelHandler} is annotated with the { @code @Sharable}
annotation, it means you can create an instance of the handler just once and
add it to one or more { @link ChannelPipeline}s multiple times without
a race condition.
</p>
<p>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.
</p>
<p>This annotation is provided for documentation purpose, just like
<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.</p>

<h3>Additional resources worth reading</h3>
<p>Please refer to the { @link ChannelHandler}, and
{ @link ChannelPipeline} to find out more about inbound and outbound operations,
what fundamental differences they have, how they flow in a pipeline, and how to handle
the operation in your application.
</p>

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* /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4.1.45-final-sources-1-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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"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.

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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.

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

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

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

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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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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.

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BIRT Runtime

What is it?
-----------
BIRT is an open source, Eclipse-based reporting system that integrates with
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BIRT Runtime includes the resource which is necessary to run BIRT engine and BIRT
chart. It also includes a BIRT Sample Web Viewer.
BIRT Engine is a report engine which generates report from defined report and
related data source.
BIRT Chart is a 2 or 2.5 dimension data representation component. It can produce
24-bit images, 8-bit images, SWT graphics or SWING graphics.
You can find more information about BIRT and related technology from
http://www.eclipse.org/birt/faq/

The Website for BIRT.
----------------------
You can find the manual, samples and other source from http://www.eclipse.org/birt.

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

1. set BIRT_HOME to the directory where BIRT Report Runtime Package is extracted.
2. enter into $BIRT_HOME/ReportEngine folder.
2. generate the report by run
   genReport xxx.rptdesign
xxx.rptdesign is the design file. if the design file is in the current directory, you have to specify it by \xxx.rptdesign

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1.886 pycparser 2.20

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1.890 junit 4.12

1.890.1 Available under license:
JUnit

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#
# 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 '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 univalue(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,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',t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F',t_base VARCHAR(3)
NOT NULL DEFAULT ");

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 '"'), 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_recurrence_operation_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, i_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 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_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 budgetrule(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, id_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', 'Y', 'C')));
CREATE TABLE "recurrence_operation" (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 'N' CHECK (t_period_unit IN ('N', 'Y', 'C')));
DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')), t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_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', 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', t_type VARCHAR(1) NOT NULL DEFAULT 'C', t_type IN ('C', 'D', 'A', 'I', 'L', 'W', 'O'), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N', 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', 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||'-'||'parameters';
END;
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id; 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 utilis 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 utilis 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 utilis par budget)
Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER 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 utilis 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_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 fkdb_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: fkdb_budgetrule_category_rc_category_id_target_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 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 utilisé 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 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 utilisé 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 fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par category)

Nom de la contrainte: fki_category_category_rd_category_id_id)

WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id=''

AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;

CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par category)

Nom de la contrainte: fku_category_category_rd_category_id_id)

WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id=''

AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;

CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;

CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilisé par doctransactionitem)

Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id)

WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id=''

AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionitem)

Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id)

WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id=''

AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransaction 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 utilisé par doctransactionmsg)

Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id)

WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id=''

AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionmsg)

Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id)

WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id=''

AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg FOR EACH ROW 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 utilisé par interest)
  Nom de la contrainte: fki_interest_account_rd_account_id_id')
  WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilisé par interest)
  Nom de la contrainte: fku_interest_account_rd_account_id_id')
  WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;

CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN
  DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;

CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilisé par node)
  Nom de la contrainte: fki_node_node_rd_node_id_id')
  WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;

CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilisé par node)
  Nom de la contrainte: fku_node_node_rd_node_id_id')
  WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;

CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN
  DELETE FROM node WHERE node.rd_node_id = OLD.id; END;

CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilisé 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 utilisé 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 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 FOR EACH ROW 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 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 fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN
  SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est 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 fkdc_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;
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND
NEW.rc_unit_id!="" AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtirier un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id') WHERE (SELECT rc_unit_id FROM operation
WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation
est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE
NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!="" AND (SELECT id FROM
recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation
est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE
NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!="" AND (SELECT id FROM
recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON
recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE
r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON
recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation
est utilis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation
WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON
recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation
est utilis par recurrentoperation)
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id') WHERE
NEW.rd_operation_id!=0 AND NEW.rd_operation_id!="" AND (SELECT id FROM operation
WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkd_recurrentoperation_operation_rd_operation_id_id BEFORE DELETE ON operation
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtirier un objet (operation
est utilis par recurrentoperation)
Nom de la contrainte: fkd_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 SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation
est utilis par recurrentoperation)
Nom de la contrainte: fkdc_operation_recurrentoperation_id_rd_operation_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;
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 (opération est utilis par subopération)
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 fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (opération est utilis par subopération)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id=''' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER 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 subopération)
Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id=''' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par subopération)
Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id=''' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkd_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_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 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 fkd_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unitvalue)
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 utilisé par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN 
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible de détruire un objet (category est utilisé par vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN 
DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN "ELSE (SELECT 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, (SELECT MAX(s.f_value) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS f_QUANTITY, (SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;
CREATE VIEW v_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 T2 ON T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND (T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_name FROM payee s WHERE s.id=operation_r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;
CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)==(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.id=v_operation_tmp1.id AND s2.f_value!=0)) AS t_payee,(SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id) AS i_NBSuboperations, (SELECT MAX(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=v_operation_tmp1.id) AS d_MAXDATE, (SELECT MIN(s.d_date) FROM  unitvalue s WHERE s.rd_unit_id=v_operation_tmp1.id) AS d_MINDATE, (SELECT MAX(s.f_value) FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id) AS f_QUANTITY, (SELECT count(*) FROM suboperation s WHERE s.rd_operation_id=v_operation_tmp1.id) AS i_NBSUBCATEGORY FROM operation;
suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,((SELECT s.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation_tmp1.rd_account_id=a.id AND a.t_type<>L') AND EXISTS (SELECT 1 FROM v_operation_tmp1 op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND a.t_type<>L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY= v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||IFNULL(t_PAYEE,'')||' '||v_operation.f_CURRENTAMOUNT||' '||(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM v_operation;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n’êtes pas autorisés à supprimer cette opération car en attente d’approbation' END) t_delete_message FROM operation;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n’êtes pas autorisés à supprimer ce compte car il contient des opérations rapprochées' END) t_delete_message FROM account;
CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;
CREATE VIEW v_account_displayname AS SELECT *, (SELECT t_displayname FROM v_bank_displayname WHERE account.rd_bank_id=v_bank_displayname.id)||'-'||t_name AS t_displayname FROM account;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y' THEN 'année(s)'' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)'' ELSE jour(s)'' END) AS t_PERIODNLS FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM v_recurrentoperation;
CREATE VIEW v_unitvalue_display AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=unitvalue.rd_unit_id)),'') AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id),'') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id),'') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY
WHEN sop.f_value<0 THEN 'Dépense' WHEN sop.f_value=0 THEN " " ELSE 'Revenu' END) AS t_TYPEEXPENSENSLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALCURRENTAMOUNT, ((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_uuidParent=op.id||'-operation';
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) 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 cette instance car utilisée par d’autres opérations rapprochées' END) t_delete_message 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 refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
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 d’autres opérations rapprochées' END) t_delete_message FROM category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT>0 THEN 'Y' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'N' ELSE 'F' END) AS t_TYPEEXPENSE,(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN 'Dépense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT>0 THEN 'Revenu' END) AS
t_TYPEEXPENSENL FROM vm_category_display_tmp;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.tACCOUNT, op.iNumber, op.t_mode,
op.i_group_id, op.t_TRANSFER, op.tPAYEE, 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, (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_budgetrule_displayname AS SELECT *, (i_year||(CASE 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_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month)) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N' OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABEFORERETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABEFORERETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABEFORERETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABEFORERETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABEFORERETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABEFORERETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABEFORERETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABLEAFTERTRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABLEAFTERTRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABLEAFTERTRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f DELTABLEAFTERTRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA FROM v_budget_tmp;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN

CREATE TRIGGER fkdc_univalue_parameters uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DETERMINE 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
DETERMINE 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
DETERMINE 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
DETERMINE 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
DETERMINE 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
DETERMINE 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
DETERMINE 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
DETERMINE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'reccurentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DETERMINE 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
DETERMINE 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
DETERMINE 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;
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;
}
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: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"
INTEGER);
CREATE TABLE "mfo:FeedSettings" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:expiryInterval" INTEGER, "mfo:expiryInterval:graph" INTEGER,
"mfo:timestamp" TEXT COLLATE NOCASE, "mfo:timestamp:graph" INTEGER,
"mfo:downloadFlag" INTEGER, "mfo:downloadFlag:graph" INTEGER,
"mfo:maxSize" INTEGER, "mfo:maxSize:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL,
"mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph"
INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL,
"mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph"
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL,
"mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL,
"mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL,
"mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL,
"mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL,
"mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL,
"mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL,
"mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL,
"mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL,
"mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL,
"mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER,
"mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL,
"mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT NULL,
"mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL,
"mlo:belongsToCategory" INTEGER NOT NULL, "mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL,
"mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL,
"mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL,
"mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, "mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, "mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, "mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER, "mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto: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 "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,
  "ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
  "ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
  "ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
  "ncal:attachmentContent" TEXT COLLATE NOCASE, "ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,
  "ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,
  "ncal:cutype" INTEGER, "ncal:cutype:graph" INTEGER, "ncal:member" INTEGER,
  "ncal:member:graph" INTEGER, "ncal:role" INTEGER, "ncal:role:graph" INTEGER,
  "ncal:rsvp" INTEGER, "ncal:rsvp:graph" INTEGER, "ncal:partstat" INTEGER,
  "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal: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,
  "ncal:AttendeeRole" INTEGER, "ncal:AttendeeRole:graph" INTEGER,
  "ncal:AttendeeRole:graph" INTEGER, "ncal:AttendeeRole:graph" INTEGER,
  "ncal:AttendeeRole:graph" INTEGER, "ncal:AttendeeRole:graph" INTEGER,
  "ncal:AttendeeRole:graph" INTEGER, "ncal:AttendeeRole:graph" INTEGER,
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<thead>
<tr>
<th>Table Name</th>
<th>Definition</th>
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<tr>
<td><code>ncal:Calendar</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY,</td>
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<tr>
<td></td>
<td>&quot;ncal:method&quot; TEXT COLLATE NOCASE, &quot;ncal:method:graph&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:calscale&quot; INTEGER, &quot;ncal:calscale:graph&quot; INTEGER, &quot;ncal:prodid&quot;</td>
</tr>
<tr>
<td></td>
<td>TEXT COLLATE NOCASE, &quot;ncal:prodid:graph&quot; INTEGER, &quot;ncal:version&quot; TEXT</td>
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<td>COLLATE NOCASE, &quot;ncal:version:graph&quot; INTEGER);</td>
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<td><code>ncal:CalendarDataObject</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td><code>ncal:CalendarScale</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
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<td><code>ncal:CalendarUserType</code></td>
<td>(ID INTEGER NOT NULL, &quot;ncal:component&quot; INTEGER NOT NULL,</td>
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<td></td>
<td>&quot;ncal:component:graph&quot; INTEGER);</td>
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<tr>
<td><code>ncal:Calendar_ncal:component</code></td>
<td>(ID INTEGER NOT NULL, &quot;ncal:component&quot; INTEGER NOT NULL,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:component:graph&quot; INTEGER);</td>
</tr>
<tr>
<td><code>ncal:Event</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:eventStatus&quot; INTEGER, &quot;ncal:eventStatus:graph&quot; INTEGER,</td>
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<td>&quot;ncal:transp&quot; INTEGER, &quot;ncal:transp:graph&quot; INTEGER);</td>
</tr>
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<td><code>ncal:EventStatus</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
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<tr>
<td><code>ncal:Freebusy</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:fbtype&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:fbtype:graph&quot; INTEGER);</td>
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<tr>
<td><code>ncal:FreebusyPeriod</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:freebusy&quot; INTEGER NOT NULL,</td>
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<tr>
<td></td>
<td>&quot;ncal:freebusy:graph&quot; INTEGER);</td>
</tr>
<tr>
<td><code>ncal:FreebusyType</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td><code>ncal:Freebusy_ncal:freebusy</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:freebusy:graph&quot; INTEGER);</td>
</tr>
<tr>
<td><code>ncal:Journal</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:journalStatus&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:journalStatus:graph&quot; INTEGER);</td>
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<td><code>ncal:JournalStatus</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td><code>ncal:NcalDateTime</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY,</td>
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<tr>
<td></td>
<td>&quot;ncal:ncalTimezone&quot; INTEGER, &quot;ncal:ncalTimezone:graph&quot; INTEGER,</td>
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<tr>
<td></td>
<td>&quot;ncal:date&quot; INTEGER, &quot;ncal:date:graph&quot; INTEGER, &quot;ncal:date:localDate&quot;</td>
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<td>INTEGER, &quot;ncal:date:localTime&quot; INTEGER, &quot;ncal:dateTime&quot; INTEGER,</td>
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<td>&quot;ncal:dateTime:graph&quot; INTEGER, &quot;ncal:dateTime:localDate&quot; INTEGER,</td>
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<td>&quot;ncal:dateTime:localTime&quot; INTEGER);</td>
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<td><code>ncal:NcalPeriod</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY,</td>
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<tr>
<td></td>
<td>&quot;ncal:periodBegin&quot; INTEGER, &quot;ncal:periodBegin:graph&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:periodBegin:localDate&quot; INTEGER, &quot;ncal:periodBegin:localTime&quot;</td>
</tr>
<tr>
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<td>INTEGER, &quot;ncal:periodDuration&quot; INTEGER, &quot;ncal:periodDuration:graph&quot;</td>
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<td>INTEGER, &quot;ncal:periodEnd&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:periodEnd:graph&quot; INTEGER, &quot;ncal:periodEnd:localDate&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:periodEnd:localTime&quot; INTEGER);</td>
</tr>
<tr>
<td><code>ncal:NcalTimeEntity</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td><code>ncal:Organizer</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td><code>ncal:ParticipationStatus</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td><code>ncal:RecurrenceFrequency</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td><code>ncal:RecurrenceIdentifier</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:range&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:range:graph&quot; INTEGER, &quot;ncal:recurrenceIdDateTime&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:recurrenceIdDateTime:graph&quot; INTEGER);</td>
</tr>
<tr>
<td><code>ncal:RecurrenceIdentifierRange</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY);</td>
</tr>
<tr>
<td><code>ncal:RecurrenceRule</code></td>
<td>(ID INTEGER NOT NULL PRIMARY KEY, &quot;ncal:until&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:until:graph&quot; INTEGER, &quot;ncal:until:localDate&quot; INTEGER,</td>
</tr>
<tr>
<td></td>
<td>&quot;ncal:until:localTime&quot; INTEGER);</td>
</tr>
</tbody>
</table>

**Open Source Used In SVO 12.3.0 9957**
"ncal:wkst" INTEGER, "ncal:wkst:graph" INTEGER, "ncal:interval"
INTEGER, "ncal:interval:graph" INTEGER, "ncal:count" INTEGER,
"ncal:count:graph" INTEGER, "ncal:freq" INTEGER, "ncal:freq:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL,
"ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL,
"ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal: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:standard:graph" INTEGER, "ncal:daylight" INTEGER,
"ncal:daylight:graph" INTEGER, "ncal:tzid" TEXT COLLATE NOCASE,
"ncal:tzid:graph" INTEGER);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:tzoffsetfrom" TEXT COLLATE NOCASE,
"ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE
NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE
NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER,
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER,
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime"
INTEGER, "ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER,
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,
"ncal:triggerDateTime:localDate" INTEGER,
"ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration" INTEGER,
"ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime" INTEGER, "ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,
"ncal:created" INTEGER, "ncal:created:graph" INTEGER,
"ncal:created:localDate" INTEGER, "ncal:created: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,
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<th>Column Name</th>
<th>Data Type</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ncal:exdate</td>
<td>INTEGER</td>
<td>NOT NULL, graph</td>
</tr>
<tr>
<td>ncal:exdate:graph</td>
<td>INTEGER</td>
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</tbody>
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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:Affiliation_nco:title` (ID INTEGER NOT NULL, nco:title TEXT NOT NULL, nco:title:graph INTEGER);

CREATE TABLE `nco:AuthorizationStatus` (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE `nco:BbsNumber` (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE `nco:CarPhoneNumber` (ID INTEGER NOT NULL PRIMARY KEY);


CREATE TABLE `nco:ContactGroup` (ID INTEGER NOT NULL PRIMARY KEY, nco:groupName TEXT COLLATE NOCASE, nco:groupName: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_ncal:anniversary" (ID INTEGER NOT NULL,
"scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL,
"scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE,
"nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph" INTEGER,
"nco:imAccountType" TEXT COLLATE NOCASE, "nco:imAccountType:graph" INTEGER,
"nco:imDisplayName" TEXT COLLATE NOCASE, "nco:imDisplayName:graph" INTEGER,
"nco:imEnabled" INTEGER, "nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL,
"nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph" INTEGER);
CREATE TABLE "nco:IMAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imID" TEXT COLLATE NOCASE, "nco:imID:graph" INTEGER,
"nco:imNickname" TEXT COLLATE NOCASE, "nco:imNickname:graph" INTEGER,
TEXT COLLATE NOCASE, "nco:imProtocol:graph" INTEGER,
"nco:imStatusMessage" TEXT COLLATE NOCASE, "nco:imStatusMessage:graph" INTEGER,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo: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" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER,
"nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER,
"nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph" INTEGER,
"nco:nameHonorificSuffix" TEXT COLLATE NOCASE, "nco:nameHonorificSuffix:graph" INTEGER,
"nco:nameHonorificPrefix" TEXT COLLATE NOCASE, "nco:nameHonorificPrefix:graph" INTEGER,
"nco:hobby" TEXT COLLATE NOCASE, "nco:hobby:graph" INTEGER,
"nco:gender" INTEGER, "nco:gender:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL,
"nco:hasAffiliation" INTEGER NOT NULL,
"nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nco:PostalAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:region" TEXT COLLATE NOCASE, "nco:region:graph" INTEGER,
"nco:country" TEXT COLLATE NOCASE, "nco:country:graph" INTEGER,
"nco:streetAddress" TEXT COLLATE NOCASE,
"nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
"nco:addressLocation:graph" INTEGER, "nco:streetAddress" TEXT COLLATE NOCASE,
"nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
"nco:streetAddress:graph" INTEGER, "nco:postcode" TEXT COLLATE NOCASE,
"nco:postalcode:graph" INTEGER, "nco:locality" TEXT COLLATE NOCASE,
"nco:locality:graph" INTEGER, "nco:country" TEXT COLLATE NOCASE,
"nco:district" TEXT COLLATE NOCASE, "nco:district:graph" INTEGER, "nco:pobox" TEXT COLLATE NOCASE, "nco:pobox: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:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL, "nfo:containsBookmark" INTEGER NOT NULL, "nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL, "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:originalLocation" TEXT COLLATE NOCASE, "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER, "nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:tableOfContents" TEXT COLLATE NOCASE, "nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph" INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER, "nfo:equipmentSoftware" TEXT COLLATE NOCASE, "nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER, "nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER,
  "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY,
  "nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph" INTEGER,
  "nfo:horizontalResolution" INTEGER, "nfo:horizontalResolution: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:dnalProfile" TEXT COLLATE NOCASE,
  "nmm:dnalProfile:graph" INTEGER, "nmm:dnalMime" TEXT COLLATE NOCASE,
  "nmm:dnalMime: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: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: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_nid3:leadArtist" (ID INTEGER NOT NULL, "nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL, "nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL, "nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
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:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER, "nmm:musicCDIdentifier" TEXT COLLATE NOCASE, "nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER, "nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL, "nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL, "nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY" INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL, "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL, "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL, "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL, "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL, "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY, "nmo: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: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);
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:sentWithReportRead" INTEGER, "nmo:sentWithReportRead:graph"
INTEGER, "nmo:reportReadStatus" INTEGER, "nmo:reportReadStatus:graph"
INTEGER, "nmo:mustAnswerReportRead" INTEGER,
"nmo:mustAnswerReportRead:graph" INTEGER, "nmo:mmsId" TEXT COLLATE
NOCASE, "nmo:mmsId:graph" INTEGER);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER,
"nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_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 "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);

CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);

CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);

CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);

CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);


CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL, "dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);

CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date" INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER NOT NULL, "dc:date:localTime" INTEGER NOT NULL);

CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL, "dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL, "dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL, "nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL, "nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL, "nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type" INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
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<thead>
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<th>Table Name</th>
<th>Table Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>scal:access</td>
<td>INTEGER NOT NULL, &quot;scal:access:graph&quot; INTEGER</td>
</tr>
<tr>
<td>scal:CalendarItem_cal:attachment</td>
<td>ID INTEGER NOT NULL, &quot;scal:attachment&quot; INTEGER NOT NULL, &quot;scal:attachment:graph&quot; INTEGER</td>
</tr>
<tr>
<td>scal:CalendarItem_cal:attendee</td>
<td>ID INTEGER NOT NULL, &quot;scal:attendee&quot; INTEGER NOT NULL, &quot;scal:attendee:graph&quot; INTEGER</td>
</tr>
<tr>
<td>scal:belongsToCalendar</td>
<td>ID INTEGER NOT NULL, &quot;scal:belongsToCalendar&quot; INTEGER NOT NULL, &quot;scal:belongsToCalendar:graph&quot; INTEGER</td>
</tr>
<tr>
<td>scal:contact</td>
<td>ID INTEGER NOT NULL, &quot;scal:contact&quot; INTEGER NOT NULL, &quot;scal:contact:graph&quot; INTEGER</td>
</tr>
<tr>
<td>scal:rrule</td>
<td>ID INTEGER NOT NULL, &quot;scal:rrule&quot; INTEGER NOT NULL, &quot;scal:rrule:graph&quot; INTEGER</td>
</tr>
<tr>
<td>scal:calendarUserType</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
<tr>
<td>scal:event</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, &quot;scal:eventStatus&quot; INTEGER, &quot;scal:eventStatus:graph&quot; INTEGER</td>
</tr>
<tr>
<td>scal:Journal</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, &quot;scal:journalStatus&quot; INTEGER, &quot;scal:journalStatus:graph&quot; INTEGER</td>
</tr>
<tr>
<td>scal:journalStatus</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
<tr>
<td>scal:RSVPValues</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
<tr>
<td>scal:journalUserType</td>
<td>ID INTEGER NOT NULL PRIMARY KEY</td>
</tr>
</tbody>
</table>
"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: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 "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 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" ON "nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_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: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
"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 "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
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation" "slo:postalAddress";
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON "slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON "slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON "slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:ickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, strftime("%s", (SELECT "nco:birthDate" FROM "nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM "nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM "nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:imNickname" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE), '
') FROM (SELECT "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS "3_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation2", "nco:Role_nco:hasIMAddress" AS "nco:Role_nco:hasIMAddress3" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" = "nco:Role_nco:hasIMAddress3"."ID"), (SELECT GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT "nco:phoneNumber" FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, ? COLLATE NOCASE), '
') FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS "4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation4", "nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = "nco:Role_nco:hasPhoneNumber5"."ID"), (SELECT
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)]]? COLLATE NOCASE|COALESCE((SELECT "nco:locality" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)]]? COLLATE NOCASE|COALESCE((SELECT "nco:postalcode" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)]]? COLLATE NOCASE|COALESCE((SELECT "nco:streetAddress" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)]]? COLLATE NOCASE|COALESCE((SELECT Uri FROM Resource WHERE ID = (SELECT "nco:addressLocation" FROM "nco:PostalAddress" WHERE ID = "7_u")), ? COLLATE NOCASE)]]? COLLATE NOCASE|COALESCE((SELECT "nco:extendedAddress" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)]]? COLLATE NOCASE|COALESCE((SELECT "nco:country" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)]]? COLLATE NOCASE|COALESCE((SELECT "nco:region" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE), \n) FROM (SELECT "nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress" AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS "nco:Role_nco:hasPostalAddress12", "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation11", "nco:PersonContact_nco:hasAffiliation" AS "nco:Role_nco:hasPostalAddress12" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation11"."ID" AND "nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" = "nco:Role_nco:hasPostalAddress12"."ID"), (SELECT GROUP_CONCAT("10_u" COLLATE NOCASE, ",") FROM (SELECT "nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS "8_u", "nao:Property14"."nao:propertyName" AS "9_u", "nao:Property14"."nao:propertyValue" AS "10_u" FROM "nie:InformationElement_nao:hasProperty" AS "nie:InformationElement_nao:hasProperty13", "nao:Property" AS "nao:Property14" WHERE "1_u" = "nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS "8_u", "nao:Property14"."nao:propertyName" AS "9_u", "nao:Property14"."nao:propertyValue" AS "10_u" FROM "nie:InformationElement_nao:hasProperty" AS "nie:InformationElement_nao:hasProperty13", "nao:Property" AS "nao:Property14" WHERE "1_u" = "nie:InformationElement_nao:hasProperty13"."ID" AND "nie:InformationElement_nao:hasProperty13"."nao:hasProperty" = "nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE))) FROM (SELECT "nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS "nco:PersonContact1") ORDER BY "1_u"; } */ Goto */}

finish_test

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

without a shared lock, other processes are free to modify the database

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

<h3>Proprietary SQLite Extensions</h3>
<a href="copyright.html">public domain</a>. But there also exist proprietary, licensed extensions to SQLite, written and maintained. You are welcomed to use SQLite in closed source, proprietary, and/or

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

)putinterval

Found in path(s):
* 1 index 0(BadFont
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.

<i>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):
No license file was found, but licenses were detected in source scan.

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

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if !fts2 { finish_test return }

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

# do_test fts2c-1.1 {
# db eval {
# CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
# BEGIN TRANSACTION;
# INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

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

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

Please see example below:

Parent”s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge 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',
'ljouise.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/1);

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
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.
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 ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com',
'all_ena_egm_eim@enron.com','EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

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

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',
'ingrid.immer@williams.com','Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

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

<<About St Pauls.url>>

?http://www.stpaulshouston.org/about.html

Chris,

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

Let me know. ?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmcerea@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"rorke@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, gggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000', '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;

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 13th floor.

Thanks,
JMForney
3-7160;

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)"
"Marymankarious@mhhs.org", "Marymankarious (E-mail)"
"mankarious@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
Subject: New EAST books

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

Thanks for your help on this.

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

WK

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

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

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

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

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

Dave

I saw it. Very interesting.

Vince
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');
Dear SmartReminders Member,

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

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

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

Ben

Expense Report Receipts Not Received

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.

CAISO Emergency Motion -- to discontinue market-based rates for, 'FYI. the latest broadside against the generators.'
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'}; 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 California)', '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 ------------------------
These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

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

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

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

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

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

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP
The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

');

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution’s Capacity Available for Release - Sum', '----------------------
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM ---------------------------
agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
c: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum


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

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

Aaron Goddard

- 2001Summer.doc

');

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

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@miller.nash.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',

---
Cooper,

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

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

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.
I haven''t talked to many of you via email recently but I do want to give you
my new address for your email file:

    bjm30@earthlink.net

I hope all is well.

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

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' 2001 Enron Law Conference
San Antonio, Texas  May 2-4, 2001  Westin Riverwalk

        See attached memo for more details!!

? Registration for the law conference this year will be handled through an

\[\]

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

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

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

Thanks for your help!
Casey;

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

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

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

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

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

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

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

PL

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

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

Marie

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

')

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

')

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

Thank you,
Karolyn Criado
3-9441

')

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

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

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

Thanks.';)

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',


'RE: Constellation TC 5-7-01', 'Gregg,

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

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

www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', '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',


Open Source Used In SVO 12.3.0  10008
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:

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

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

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

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

Canada:
1905 305-6530
support@palm.com
New Zealand:
0800 446-398
support@palm-nz.com

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

Please refer to the Worldwide Customer Support card for a complete technical support contact list.';
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

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

bp corpAlbert LaMore281-366-4962

running the reports now

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

give me a contact over there too
BP

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

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded. Variance detected.
Variance detected in Load schedule.
LOG MESSAGES:

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

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

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

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

Richard McDougall
Solaris 8
Thursday, June 7, 2001

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

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

Click below for more details.

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

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

Open Source Used In SVO 12.3.0  10012
do_test fts2c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts2c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts2c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts2c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
  }
} {}
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 {
        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>/ 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 '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>}}
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>@enron.com schedules awarded.
Variance detected.
Variance detected in <b>Load</b>@enron.com 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 {
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.

INSERT INTO x1 VALUES('blonds', 'proprietary');

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

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

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if 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 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,
'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

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('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.
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

Attended 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
outrage@industrialinfo.com

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

You are invited to attend the EWS Brown Bag Lunch Series
Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

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

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

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

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

Chris,

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

Let me know.?? ii

- About St Pauls.url

');

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:

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

Susan Pereira);

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160);

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.);
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.ms.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

');

'vince.kaminski@enron.com', 'jhh1@email.ms.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

'Vince J Kaminski' <Vince_J_Kaminski@enron.com>

As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.
Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

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

Thanks,

Eric');

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

Dear SmartReminders Member,

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

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

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

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

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

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

Nailia
-------------------------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 --------------------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

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

Nailia

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

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

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

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

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

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM -------------------

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

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

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM -------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
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, michelearly@earthlink.net,' , 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

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

-----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)', '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.

');

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

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

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

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

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

Thanks for your help!
Casey');

ds

');

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

";

Please contact me if you have any questions regarding last weeks prices.

'});
Thank you,
Karolyn Criado
3-9441

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

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

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

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

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

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

www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', ", 'Jacques,

I sent you a fax of Kevin Kolb''s comments on the release. The payoff on the note would be $36,248
($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

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

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

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

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
   included in the calc.
Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

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

Kourtney

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

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

Paul,

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

Call if you have any more questions.

Rebecca

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

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

Paul
-----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
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('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. Tychozil  
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', 'duch.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');

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

This week’s Lite Bytz presentation will feature the following TOOLZ speaker:
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;
} {}
SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 [2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 [2 0 42 3 2 1 54 8 3 1 54 8]}
do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 [2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 [2 0 42 3 2 1 54 8]}
do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 [3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
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'
  }
} {{<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 fts1c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>S</b>heet<i>...</i> intent
    Review Enron asset base for <b>potential</b>/ <b>reuse</b>/ licensing
    Contract negotiations <b>...</b>}}
do_test fts1c-4.4 {
  execsql {
    SELECT snippet(email,'<<',>>','' ) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
}
Review Enron asset base for potential reuse/ licensing

Contract negotiations

```sql
SELECT snippet(email,'<<','>>',' ') FROM email
WHERE email MATCH 'first things'
```

```sql
SELECT snippet(email) FROM email
WHERE email MATCH 'chris is here'
```

```sql
SELECT snippet(email) FROM email
WHERE email MATCH '"pursuant to"'
```

```sql
SELECT snippet(email) FROM email
WHERE email MATCH 'ancillary load davis'
```

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

```
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:
#
```sql
SELECT snippet(email) FROM email
WHERE email MATCH 'questar enron OR com'
```

```sql
SELECT snippet(email) FROM email
WHERE email MATCH 'questar enron OR com'
```

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

finish_test

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

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

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

%%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

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.
application code is free to use these routines as well, if desired.

Found in path(s):

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

MMFauxFont.prc

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

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:</p>

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>

<p>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. <p></p>

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs. <p></p>

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers. <p></p>

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset. <p></p>

"SQLite has become a popular embedded database because it is lightweight, fast,
and open source,” said Michael Schroepfer, Vice President of Engineering, Mozilla. “As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet.”

“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/.

CONTACT INFORMATION:
SQLite Consortium
Dr. D. Richard Hipp
6200 Maple Cove Lane
Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About 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.

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

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<br>
Karen Hamblen<br>
+44 207 154 1707<br>
press@symbian.com

The psow query parameter works with the default windows and unix VFSes but might be a no-op for other
proprietary or non-standard VFSes.

Found in path(s):
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

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

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

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

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

other proprietary or non-standard VFSes.

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

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>
<p>This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ____________, 2007 ("Effective Date") by and between ___________________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>
<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> ("SQLite"); and</p>
<p>WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and</p>
<p>WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and</p>
WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

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

1.0 Definitions

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

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

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

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

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

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

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

<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.

<h4>2.1.6 Custom Testing</h4>
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.

<h4>2.1.7 Priority Bug Fixes</h4>
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.

<h4>2.1.8 Code Quality</h4>
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.

<h4>2.1.9 Backwards Compatibility</h4>
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.

<h4>2.1.10 Test Coverage</h4>
<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.</p>

<h4>2.1.11 Website</h4>
<p>The SQLite Developers shall maintain the SQLite website at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> in good working order and all SQLite source code shall be made freely available at such website.</p>

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.</p>

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

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.</p>

<h4>2.3.7 Trademark</h4>
<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the 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.

2.3.11 Use Of Funds

Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

2.4 Responsibilities And Obligations Of Company

2.4.1 Funding

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

2.4.2 Copyright Disclaimer

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

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

4.0 Confidentiality

4.1 Definition of Confidential Information

"Confidential Information” means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, 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.

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.

<h3>4.3 Return of Materials.</h3>

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.

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

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.

<h3>5.2 Availability and Public Domain Dedication</h3>

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.</p>

<h3>5.3 Trademark</h3>

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

<h2>6.0 Representations And Warranties</h2>

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

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

<h3>6.2 Disclaimer.</h3>

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

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by
<h3>7.2 Termination.</h3>

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

<h3>7.3 Survival.</h3>

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

<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.</p>

<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>

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>

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>

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:<br>
<br>&nbsp;&nbsp;&nbsp;&nbsp;Print Name:<br>
<br>&nbsp;&nbsp;&nbsp;&nbsp;Title:<br>
</td><td width="10%"></td>
<td valign="top"
COMPANY<br>
By:<br>
<br>&nbsp;&nbsp;&nbsp;&nbsp;Print Name:<br>
<br>&nbsp;&nbsp;&nbsp;&nbsp;Title:<br>
</td></tr></table>
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**  May you do good and not evil.
**  May you find forgiveness for yourself and forgive others.
**  May you share freely, never taking more than you give.
**
******************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

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

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

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

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.

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

Found in path(s):
No license file was found, but licenses were detected in source scan.
the public domain and originals of
author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require
the public domain.  

in this code to the public domain.  We make this dedication for the benefit

---

# 2001 September 15

# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this file is testing built-in functions.
#

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

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

} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
  execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
  execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
  execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u1234"!="u1234"} {
  # Put some UTF-8 characters in the database
  #
do_test func-3.0 {
    execsql {DELETE FROM tbl1}
    foreach word "contains UTF-8 characters hiሴho" {
      execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql {SELECT t1 FROM tbl1 ORDER BY t1}
    "UTF-8 characters contains hiሴho"
do_test func-3.1 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
    execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
    "UTF cha con hi\u1234"
do_test func-3.4 {
    execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
    "TF ha on i\u1234"
do_test func-3.5 {
    execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
    "TF- har ont i\u1234h"
do_test func-3.6 {
    execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
    "F- ar nt \u1234h"
do_test func-3.7 {
    execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
    "-8 ra ta ho"do_test func-3.8 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain \u1234h"
do_test func-3.99 {
execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
execsql "INSERT INTO tbl1 VALUES('$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()}}
}
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}
ifcapable !floatingpoint {
  if {
    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(12345678901234.51); }
        {12345678901234.5}
    }
    do_test func-4.35 {
        execsql { SELECT round(12345678901234.545); }
        {12345678901234.55}
    }
    do_test func-4.36 {
        execsql { SELECT round(9999999999999.5); }
        {9999999999999.55}
    }
    do_test func-4.37 {
        execsql { SELECT round(9999999999999.556); }
        {9999999999999.556}
    }
}

# Test the upper() and lower() functions
#
    do_test func-5.1 {
        execsql { SELECT upper(t1) FROM tbl1}
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 {
  catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
} {this program is free software}
do_test func-5.4 {
  catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

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

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

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
}
execsql {
    SELECT sum(a), count(a), round(avg(a), 2), min(a), max(a), count(*) FROM t2;
}
} {68236 3 22745.33 1 67890 5}
ifcapable !floatingpoint {
do_test func-8.1 {
  ifcapable explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;
    }
  }
  execsql {
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
  }
} {68236 3 22745.0 1 67890 5}
do_test func-8.2 {
  execsql {
    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
  }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable tempdb {
do_test func-8.3 {
  execsql {
    CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} else {
do_test func-8.3 {
  execsql {
    CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} do_test func-8.4 {
execsql {
    SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable compound {
do_test func-8.5 {
  execsql {
    SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x 
      UNION ALL SELECT -9223372036854775807)
  }
} {0}
do_test func-8.6 {
execsql {
  SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
      UNION ALL SELECT -9223372036854775807)
}
} {integer}
do_test func-8.7 {
execsql {
  SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
      UNION ALL SELECT -9223372036854775807)
}
} {real}
ifcapable floatingpoint {
do_test func-8.8 {
execsql {
  SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
      UNION ALL SELECT -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'00112233445566778899aAbBeCdeEfF')}
    } {00112233445566778899AABBCCDDEEFF}
}

set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
    do_test func-9.11-utf16le {
        execsql {SELECT hex(replace('abcdefg','ef','12'))}
    } {610062006300640060310032006700}
    do_test func-9.12-utf16le {
        execsql {SELECT hex(replace('abcdefg','','12'))}
    } {6100620063006400650066006700}
    do_test func-9.13-utf16le {
        execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
    } {61006100610061006100610061006100650066006700}
} elseif {$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);
}
} {}

if capable floatingpoint {
do_test func-10.4 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234);
}
} {1.234}
do_test func-10.5 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234}
}
# 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;
    }
} {}
#
# 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 1 23}
do_test func-13.5 {
  execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
  }
}
}
)
}
}
}
do_test func-13.6 {
  execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
  }
}
)
}
#
# Test that auxiliary data is preserved between calls for SQL variables.
#
# Make sure that a function with a very long name is rejected
do_test func-14.1 {
  catch {
    db function [string repeat X 254] {return "hello"}
  }
}
}
}
}
do_test func-14.2 {
  catch {
    db function [string repeat X 256] {return "hello"}
  }
}
}
}
}
do_test func-15.1 {
  catchsql {select test_error(NULL)}
}
}
}
}
do_test func-15.2 {
  catchsql {select test_error('this is the error message')} 
}
}
}
}
do_test func-15.3 {
  catchsql {select test_error('this is the error message',12)}
}
}
}
}
do_test func-15.4 {
# 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}
}

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
}

do_test func-18.12 {
  catchsql {
    SELECT typeof(sum(x)) FROM t6
  }
  integer
}
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}
  }
}
catchsql {
  SELECT sum(x) FROM
  (SELECT -9223372036854775807 AS x UNION ALL
   SELECT 10 AS x);
}
} {0 -9223372036854775797}
}
do_test func-18.18 {
  catchsql {
    SELECT sum(x) FROM
    (SELECT -9223372036854775807 AS x UNION ALL
     SELECT -10 AS x);
  }
  } {1 {integer overflow}}
do_test func-18.19 {
  catchsql {
    SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
  }
  } {0 -1}
do_test func-18.20 {
  catchsql {
    SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
  }
  } {0 1}
do_test func-18.21 {
  catchsql {
    SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
  }
  } {0 -1}
do_test func-18.22 {
  catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
  }
  } {0 1}
}

#: if capable compound && subquery

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

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

# Soundex tests.
#
if {!catch {db eval {SELECT soundex('hello')}}} {
    set i 0
    foreach {name sdx} {
        euler     E460
        EULER     E460
        Euler     E460
eellery   E460
        gauss     G200
        ghosh     G200
        hilbert   H416
        Heilbronn H416
        knuth     K530
        kant      K530
        Lloyd     L300
        LADD      L300
        Lukasiewicz L222
        Lissajous  L222
        A         A000
        12345     ?000
# 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");
    }
}
ifcapable tclvar {
  do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str "$[string repeat A 29998]CC[string repeat A 35537]"
    set ::rep [string repeat B 65536]
    execsql {
      SELECT LENGTH(REPLACE($::str, 'C', $::rep));
    }
    [expr 29998 + 2*65536 + 35537]
  }
}

# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
  catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}

do_test func-22.2 {
  catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}

do_test func-22.3 {
  catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}

do_test func-22.4 {
  execsql {SELECT trim('  hi  ');}
} {hi}

do_test func-22.5 {
  execsql {SELECT ltrim('  hi  ')}
} {{hi}}

do_test func-22.6 {
  execsql {SELECT rtrim('  hi  ')}
} {{  hi}}

do_test func-22.7 {
  execsql {SELECT trim('  hi  ','xyz');}
} {{  hi  }}

do_test func-22.8 {
  execsql {SELECT ltrim('  hi  ','xyz');}
} {{ hi}}

do_test func-22.9 {
  execsql {SELECT rtrim('  hi  ','xyz');}
} {{ hi}}

do_test func-22.10 {
  execsql {SELECT trim('xyzzy hi zzzy','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'c280e1bfbff48fbfbf6869',x'6162e1bfbc280'))} {}[F48FBFBF6869]
do_test func-22.15 {
execsql {SELECT hex(trim(x'6869c280e1bfbff48fbfbf61',
x'6162e1bfbc280f48fbfbf'))} {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.
#
ifcapable deprecated {
do_test func-23.1 {
sqlite3_create_aggregate db
execsql {
    SELECT legacy_count() FROM t6;
}
} {3}
}

# The group_concat() function.
#
do_test func-24.1 {
execsql {
    SELECT group_concat(t1) FROM tbl1
}
} {this,program,is,free,software}
do_test func-24.2 {
    execsql {
        SELECT group_concat(t1,' ') FROM tbl1
    }
} {{this program is free software}}
do_test func-24.3 {
    execsql {
        SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
    }
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
    execsql {
        SELECT group_concat(NULL,t1) FROM tbl1
    }
} {{}}
do_test func-24.5 {
    execsql {
        SELECT group_concat(t1,NULL) FROM tbl1
    }
} {{}}
do_test func-24.6 {
    execsql {
        SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
    }
} {BEGIN-this,program,is,free,software}

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

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
# do_test func-24.8 {
dexecsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
} } {,program,is,free,software}
do_test func-24.9 {
dexecsql {
    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 {
dexecsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
} } {program,is,free,software}
do_test func-24.11 {
dexecsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
} } {software}
do_test func-24.12 {
dexecsql {
    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 {
dexecsql {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
} {}
# 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

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nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789

} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
 * }

do_test func-26.6 {
  catchsql "
  SELECT
  nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
  a(0);
  "
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789
 * }

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);
}

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} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
if {$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):
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# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

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

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# 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
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# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
execsql {
  DELETE FROM t1_term;
  DELETE FROM t1_content;
  INSERT INTO t1(word) VALUES($pfrom);
  SELECT term FROM t1_term;
}
} $pto
}

finish_test

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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.

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.

/**
 ** 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>
 ** </dl>There are no arguments to this option. ^This option sets the [threading mode] to Single-thread. In other words, it disables all mutexing and puts SQLite into a mode where it can only be used by a single thread. ^If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to change the [threading mode] from its default value of Single-thread and so [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD configuration option.
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]]<dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** </dl>There are no arguments to this option. ^This option sets the [threading mode] to Multi-thread. In other words, it disables mutexing on [database connection] and [prepared statement] objects. The application is responsible for serializing access to [database connections] and [prepared statements]. But other mutexes
are enabled so that SQLite will be safe to use in a multi-threaded environment as long as no two threads attempt to use the same [database connection] at the same time. ^If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Multi-thread [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the ** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the [threading mode] to Serialized. In other words, this option enables all mutexes including the recursive mutexes on [database connection] and [prepared statement] objects. ** In this mode (which is the default when SQLite is compiled with [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access to [database connections] and [prepared statements] so that the application is free to use the same [database connection] or the same [prepared statement] in different threads at the same time. ^If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Serialized [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the ** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. The argument specifies alternative low-level memory allocation routines to be used in place of the memory allocation routines built into SQLite.)^ ^SQLite makes its own private copy of the content of the [sqlite3_mem_methods] structure before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods] structure is filled with the currently defined memory allocation routines.)^ This option can be used to overload the default memory allocation routines with a wrapper that simulations memory allocation failure or tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^(This option takes single argument of type int, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. ^When memory allocation statistics are disabled, the following SQLite interfaces become non-operational: ** <ul> ** <li> [sqlite3_memory_used()] ** <li> [sqlite3_memory_highwater()]</li>
**<[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>**
**</ul>**
**</dt>**
**</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>**
**</dt>**
**</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>**
**</dt>**
**</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</dd>**
There are three arguments: An 8-byte aligned pointer to the memory, the number of bytes in the memory buffer, and the minimum allocation size. If the first pointer (the memory pointer) is NULL, then SQLite reverts to using its default memory allocator (the system malloc() implementation), undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. If the memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory allocator is engaged to handle all of SQLite's memory allocation needs. The first pointer (the memory pointer) must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined. The minimum allocation size is capped at 2**12. Reasonable values for the minimum allocation size are 2**5 through 2**8.

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. 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].

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.)
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt><dd>(This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.) SQLite makes a copy of the
** object and uses it for page cache memory allocations.</dd>**

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt><dd>(This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object. SQLite copies of the current
** page cache implementation into that object.)</dd>**

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt><dd>The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe.</dd>**

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI</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
** 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.</dd>**

** [[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 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 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>0</td>
</tr>
<tr>
<td>1.5</td>
<td>2500</td>
</tr>
<tr>
<td>2.5</td>
<td>3500</td>
</tr>
<tr>
<td>3.5</td>
<td>4599</td>
</tr>
<tr>
<td>4.5</td>
<td>5599</td>
</tr>
</tbody>
</table>

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

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

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.
Thanks.
Dan

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

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

Thanks,

Fran Fagan  
Sr. HR Rep  
713.853.5219

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

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

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!"

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

Jim

');

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 ')

Mark your lunch calendars now!
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

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

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

"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

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

Here is a goody for you;

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

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

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

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

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

Susan Pereira');

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

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

Thanks, JMForney 3-7160');

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

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

adam
35227
-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

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

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

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

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

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

Mat

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

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.

Ben

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

Marcie

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)

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, michelearly@earthlink.net', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', ' 

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

Cooper,

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

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.schwartzburg@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
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
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

------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
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.

----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

LOG MESSAGES:

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

---- Load Schedule ----
$SS$ 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.zifferli@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;
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
  }
} {}
do_test fts3ac-1.7 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH '-mark susan'
    }
} {24}
do_test fts3ac-1.9 {
    execsql {
        SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
    }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
            WHERE email MATCH 'gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
            WHERE email MATCH 'subject:gas reminder'
    }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
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'
    }
}
# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}

do_test fts3ac-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<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'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
  Contract negotiations <<<..."}}
do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
}

{{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now }}
do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
}

{{<b>...</b><b>chris</b>.germany@enron.com" <<<b>chris</b><b>...</b><b>bet this</b><b>is</b> next to<b>...</b><b>about going</b><b>here</b><b>Christmas</b><b>eve</b><b>...</b><b>}}
do_test fts3ac-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
  }
}

<bb>Pursuant</bb><bb>to</bb> your request, attached are the Schedule to the ISDA Master Agreement, together<bb>...</bb>}
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><b>3; No</b><b>ancillary</b><b>schedules awarded</b><b>...</b><b>detected in</b><b>Load</b><b>schedule.</b>LOG<bb>...</bb>}}

# 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><b>31 Keystone Receipts
15 <b>Questar</b><b>Pipeline</b>
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><i>enron</i>.com></b>...<b><i>Questar</i></b> Pipeline
40 Rockies<...</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

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<body bgcolor="white">
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Name (printed):<p>&nbsp;</p>&nbsp;</td></tr>
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* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
1.892 shadow 4.2.1

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Eclipse

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL-GPLv2.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.897 libcap 2.22 11.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 (objcieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (objcoffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).
Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.904 libjpeg 9d
1.904.1 Available under license :

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

/*
 * jchuff.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 Huffman entropy encoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 *
 * We do not support output suspension for the progressive JPEG mode, since
 * the library currently does not allow multiple-scan files to be written
 * with output suspension.
 */

Found in path(s):
*/opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jchuff.c
No license file was found, but licenses were detected in source scan.
Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

    /*
     *  Block comments in this style.
     */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

    LOCAL(int *)
    function_name (int a, char *b)
    {

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All
global function names should begin with "jpeg_," and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/coderules.txt

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/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jerror.h

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* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1103550007_160577850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jfdctfst.c

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/*
* 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.
*/

Open Source Used In SVO 12.3.0  10737
Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrjpgcom.c
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INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2019, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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BEFORE YOU START
================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
============================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines;
  if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say
   /configure --disable-shared
If you want to build libjpeg only as a shared library, say
   /configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
To force a particular compiler to be selected, use the CC option, for example
   /configure CC='cc'
The same method can be used to include any unusual compiler switches.
For example, on HP-UX you probably want to say
   /configure CC='cc -Aa'
to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
You can override this by saying, for example,
   /configure CFLAGS='-O2'
if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files
_________________________________________________________________

If you have one of these systems, you can just use the provided configuration files:
Makefile
jconfig file
System and/or compiler

makefile.manxconfig.manxAmiga, Manx Aztec C
makefile.sasjconfig.sasAmiga, SAS C
makeproj.macjconfig.macApple Macintosh, Metrowerks CodeWarrior
mak*jpeg.stjconfig.stAtari ST/STE/TT, Pure C or Turbo C
makefile.bccjconfig.bccMS-DOS or OS/2, Borland C
makefile.djjconfig.djMS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6jconfig.mc6MS-DOS, Microsoft C (16-bit only)
makefile.watjconfig.watMS-DOS, OS/2, or Windows NT, Watcom C
makefile.vcjconfig.vcWindows, MS Visual C++
makefile.vsjconfig.vcWindows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vsjconfig.vcWindows, Visual Studio 2019 (v16)
make*.v16
makefile.b32jconfig.vcWindows, Borland C++ 32-bit (bcc32)
makefile.mmsjconfig.vmsDigital VMS, with MMS software
makefile.vmsjconfig.vmsDigital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
---------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES"
in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
--------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile
The simpler "two file" command line style is just
cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOpen or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
---------------------------

The IJG code is capable of working on images that are too big to fit in main
memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c: This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c: This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c: (That stands for No Backing Store :-) ) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c: This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c: Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c: be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to
process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=====================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
=====================

As a quick test of functionality we've included a small sample image in several forms:

- testorig.jpg: Starting point for the djpeg tests.
- testing.ppm: The output of djpeg testorig.jpg
- testing.bmp: The output of djpeg -bmp -colors 256 testorig.jpg
- testing.jpg: The output of cjpeg testing.ppm
- testprog.jpg: Progressive-mode equivalent of testorig.jpg.
- testingp.jpg: The output of cjpeg -progressive -optimize testing.ppm

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testing* files then you probably have working programs.
With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djepg and cjpeg by hand and compare the output files to testing* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djepg <testorig.jpg >out.ppm" as from "djepg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djepg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
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Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djepg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djepg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different
systems.

If you generated a Makefile with the "configure" script, you can just say make install
to install the programs and their man pages into the standard places.
(You'll probably need to be root to do this.) We recommend first saying
make -n install
to see where configure thought the files should go. You may need to edit
the Makefile, particularly if your system's conventions for man page
filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other
programs besides ours, then you need to put the four include files
jpeglib.h jerror.h jconfig.h jmorecfg.h
into your include-file directory, and put the library file libjpeg.a
(extension may vary depending on system) wherever library files go.

If you generated a Makefile with "configure", it will do what it thinks
is the right thing if you say
make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display
of percent-done progress reports. The routine provided in cdjpeg.c merely
prints percentages to stderr, but you can customize it to do something
fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster
Toolkit format) disabled, because the RLE support won't compile without the
Utah library. If you have URT version 3.1 or later, you can enable RLE
support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory
containing the URT .h files (typically the "include"
subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies
the directory containing the URT "librle.a" file (typically the
"lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision.
(For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE<8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to
supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is
that float DCT results may vary slightly across machines.) To do that, add
"#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change
the default, you should redefine JDCT_FASTEST, which is the method selected
by djpeg's -fast switch. Don't forget to update the documentation files
(usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to
define type JCOEF as int rather than short. This will cost a good deal of
memory though, particularly in some multi-pass modes, so don't do it unless
you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE
macro in jmorecfg.h is defined as the keyword that marks a function
inline-able. Some compilers have a switch that tells the compiler to inline
any function it thinks is profitable (e.g., -finline-functions for gcc).
Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler,
and experimenting with any optional optimizations such as loop unrolling.
(Unfortunately, far too many compilers have optimizer bugs ... be prepared to
back off if the code fails self-test.) If you do any experimentation along
these lines, please report the optimal settings to jpeg-info@jpegclub.org so
we can mention them in future releases. Be sure to specify your machine and
compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit
'ems to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong
about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of
makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and
change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the
Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.
There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

"#pragma novector" just before the loop
   for (i = 1; i <= (int) htbl->bits[l]; i++)
       huffsize[p++] = (char) l;

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).

This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

./configure CC='cc -Aa'

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add

"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want
to develop a Mac-style user interface. There isn’t a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell’s free “To JPEG” applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part. The CodeWarrior source code is available from http://www.pobox.com/~jsam.

2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn’t been updated since JIG v4, and the library’s API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim’s code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.) NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don’t care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You’ll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you’ll have to type the input and output file names in the “Arguments” text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven’t heard from anyone who’s tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won’t like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part
Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)
The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.
MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default.
This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox( GetActiveWindow(), buffer, "JPEG Error", MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */

into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions
for a 16-bit DLL are:
#define GLOBAL(type)		type _far _pascal _loadds _export
#define EXTERN(type)	extern type _far _pascal _loadds
#define METHODDEF(type)	static type _far _pascal
#define JMETHOD(type,methodname,arglist)  \

type (_far _pascal *methodname) arglist
For a 32-bit DLL you may want something like
#define GLOBAL(type)__declspec(dllexport) type
#define EXTERN(type)__declspec(dllexport) type
Although not all the GLOBAL routines are actually intended to be called by
the application, the performance cost of making them all DLL entry points is
negligible.

The unmodified IJG library presents a very C-specific application interface,
so the resulting DLL is only usable from C or C++ applications. There has
been some talk of writing wrapper code that would present a simpler interface
usable from other languages, such as Visual Basic. This is on our to-do list
but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need
alteration if you want to use it for Windows --- in particular, you should
use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width (about line 268 in v6 jdmerge.c):
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
} Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading
to a color shift in processed images) was produced if any of the following
optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om
So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"?)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" {...} around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the source directory and execute the command line
   NMAKE /f makefile.vs setup-vc6
   If you get an error message saying that the "NMAKE" command could not be found, execute the command
   "%ProgramFiles%\Microsoft Visual Studio\VC98\Bin\VCVARS32"
   to set the environment for using Microsoft Visual C++ tools, and repeat the NMAKE call.
   This will move jconfig.vc to jconfig.h and makefiles to project files. (Note that the renaming is critical!)
   Alternatively you can use
   NMAKE /f makefile.vs setupcopy-vc6
   This will create renamed copies of the files, which allows to repeat the setup later.
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
5. Move the application .exe files from the Release folder to an appropriate location on your path.

Microsoft Windows, Visual Studio 2019 (v16):

We include makefiles that should work as project files in Visual Studio 2019 (v16) or later. There is a library makefile that builds the IJG library as a static Win32/x64 library, and application makefiles that build the sample applications as Win32/x64 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the Developer Command Prompt for VS 2019, change to the source directory and execute the command line

NMAKE /f makefile.vs setup-v16
  This will move jconfig vc to jconfig.h and makefiles to project files.
  (Note that the renaming is critical!) Alternatively you can use

NMAKE /f makefile.vs setupcopy-v16
  This will create renamed copies of the files, which allows to repeat the setup later.
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than 2019 (v16), you'll probably get a message saying that the project files are being updated.
   b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
   c) If you want to build x64 code, change the platform setting from Win32 to x64. You can build Win32 and x64 versions side by side.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line

NMAKE /f makefile.vs test-32
  for the Win32 build, or on a 64-bit system
NMAKE /f makefile.vs test-64
  for the x64 build.
5. Move the application .exe files from the Release folder to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in
SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying
./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/jpegsrc-v9d-tar-gz/jpeg-9d/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* 
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
* #define HAVE_PROTOTYPES */

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
* #define HAVE_UNSIGNED_CHAR #define HAVE_UNSIGNED_SHORT */

/* Define "void" as 'char' if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
* */
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
* #undef CHAR_IS_UNSIGNED */

/* Define this if your system has an ANSI-conforming <stddef.h> file.
* #define HAVE_STDDEF_H */

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
* #define HAVE_STDLIB_H */

/* Define this if your system does not have an ANSI/SysV <string.h>,
* */
* but does have a BSD-style <strings.h>.
*/
#endif

/* 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.
*/
#endif

/* 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.)
*/
#endif

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#endif

/* 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.
*/
#endif

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#if defined _WIN32
#ifndef __RPCNDR_H__

typedef unsigned char boolean;
#endif
#endif

#ifndef FALSE
#define FALSE 0
#endif

#ifndef TRUE
#define TRUE 1
#endif

#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif
/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.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 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdmainct.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.
/*
 * 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.
 */

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */

/*
 * jcomapi.c
 */
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2019 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 routines that are used for both
* compression and decompression.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in Targa format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
* 
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdapimin.c
No license file was found, but licenses were detected in source scan.

/ *
* jcmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcmaster.c
No license file was found, but licenses were detected in source scan.

/ *
* jdcolor.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdcolor.c
No license file was found, but licenses were detected in source scan.

/ *
* jmorecfg.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmorecfg.h

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

/ *
* jpeglib.h
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jpeglib.h

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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jutils.c

No license file was found, but licenses were detected in source scan.
* 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
* */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).

* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.

* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.

* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.

* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jfdctflt.c

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

/*
* jdapistd.c
* 
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdapistd.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory...
or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed 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 (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.
*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that
only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
   
   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:

   input data => processing step A => buffer => processing step B => output data
   |                  |                  |
   ------------------ controller ------------------

   The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.
A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller -->
   |                          |-- Downsampling
Main controller -->
   |                      |-- Forward DCT, quantize
   |-- Coefficient controller -->
       |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is
usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall
and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- 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 need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved.
Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the
decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the
coefficient controller’s DCT coefficient buffer. Note that this
processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT
and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get
arbitrarily far ahead of the data output processing. (This occurs only
if the application calls jpeg_consume_input(); otherwise input and output
run in lockstep, since the input section is called only when the output
section needs more data.) In this way the application can avoid making
extra display passes when data is arriving faster than the display pass
can run. Furthermore, it is possible to abort an output pass without
losing anything, since the coefficient buffer is read-only as far as the
output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple
scans (or if the application specifies buffered-image mode anyway). When
reading a single-scan file, the coefficient controller normally creates only
a one-MCU buffer, so input and output processing must run in lockstep in this
case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must
be very careful with shared variables in the cinfo data structure. Each
variable that can change during the course of decompression must be
classified as belonging to data input or data output, and each section must
look only at its own variables. For example, the data output section may not
depend on any of the variables that describe the current scan in the JPEG
file, because these may change as the data input section advances into a new
scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the
file as one pass when buffered-image mode is not used, and to ignore data
input work completely when buffered-image mode is used. Note that the
library has no reliable way to predict the number of passes when dealing
with a progressive JPEG file, nor can it predict the number of output passes
in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because
there isn’t any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can
be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which
the components of a pixel are stored together, the data passed to or from the
surrounding application uses the traditional convention: a single pixel is
represented by N consecutive JSAMPLE values, and an image row is an array of
(# of color components)*(image width) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF;	// a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2];	// an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW;	// ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY;	// ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE;	// ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big
enough on all machines of interest, on some machines it is preferable to use
"int" for speed reasons, despite the storage cost. Coefficients are grouped
into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than
"8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged
order, and may be true values or divided by the quantization coefficients,
depending on where the block is in the processing pipeline. In the current
library, coefficient blocks are kept in natural order everywhere; the entropy
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 coefficient blocks,
corresponding to block_size rows of samples. Otherwise the structure
is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data
structure limits us to rows of less than 512 JBLOCKs, or a picture width of
4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW)
must be declared as "far" pointers, but the upper levels can be "near"
(implying that the pointer lists are allocated in the DS segment).
We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU: a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious
but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime,
JPOOL_PASS = one processing pass, was originally planned. However it was
dropped as not being worthwhile. The actual usage patterns are such that the
peak memory usage would be about the same anyway; and having per-pass storage
substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on
   image size. Semantically they behave the same as small objects, but we
distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers,
     small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by
type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs
   (typically large enough for the entire image being processed). The
   memory manager provides stripwise access to these arrays. On machines
   without virtual memory, the rest of the array may be swapped out to a
   temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large
objects for the data proper and small objects for the row pointers. For
convenience and speed, the memory manager provides single routines to create
these structures. Similarly, virtual arrays include a small control block
and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image
lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is
not very useful since a virtual array's raison d'etre is to store data for
multiple passes through the image.) We also expect that only "small" objects
will be given permanent lifespan, though this restriction is not required by
the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by
making the in-memory buffers for virtual arrays be as large as possible.
(For small images, the buffers might fit entirely in memory, so blind
swapping would be very wasteful.) The memory manager will adjust the height
of the buffers to fit within a prespecified maximum memory usage. In order
to do this in a reasonably optimal fashion, the manager needs to allocate all
of the virtual arrays at once. Therefore, there isn't a one-step allocation
routine for virtual arrays; instead, there is a "request" routine that simply
allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The
realize routine must allow for space occupied by non-virtual large objects.
(We don't bother to factor in the space needed for small objects, on the
grounds that it isn't worth the trouble.)
To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed injdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term: system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small: interface to malloc and free library routines
jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image
height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
  */opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/structure.txt
No license file was found, but licenses were detected in source scan.

/*
 * jaricom.c
 *
 * Developed 1997-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains probability estimation tables for common use in
  arithmetic entropy encoding and decoding routines.
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
  ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c. But also see jeparam.c for
 * parameter-setup helper routines, jcomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* 
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
* /

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
 * jdctflt.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/1103550007_1605777850.470/jpegsrc-v9d-tar.gz/jpeg-9d/jidctflt.c
No license file was found, but licenses were detected in source scan.

/ *
* jdsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

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* /opt/cola/permits/1103550007_1605777850.470/jpegsrc-v9d-tar.gz/jpeg-9d/jdsample.c
No license file was found, but licenses were detected in source scan.

/ *
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.

* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.

* An excellent reference for image resampling is

* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
  /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcsample.c

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

/*
 * jcmarker.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 routines to write JPEG datastream markers.
 */

Found in path(s):
Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s): 
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.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 Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdhuff.c
No license file was found, but licenses were detected in source scan.

/*
 * rdppm.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided “as is” without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdppm.c

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

/*
* jccolor.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 input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jinclude.h

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

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF 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 GIF format).
 */

/*
 * This code is loosely based on giftoppm from the PBMPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * +-------------------------------------------------------------------+
 * | Copyright 1990, David Koblas.                                      |
 * | Permission to use, copy, modify, and distribute this software      |
 * | and its documentation for any purpose and without fee is hereby    |
 * | granted, provided that the above copyright notice appear in all   |
 */
* | copies and that both that copyright notice and this permission | *
* | notice appear in supporting documentation. This software is | *
* | provided “as is” without express or implied warranty. | *
* | +----------------------------------------------------------------------------------*
* | */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdgif.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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdct.h
No license file was found, but licenses were detected in source scan.

/ *
* ckconfig.c
*

* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/ckconfig.c
No license file was found, but licenses were detected in source scan.

/ *
* rdjpgcom.c
*

* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
This file contains a very simple stand-alone application that displays
the text in COM (comment) markers in a JFIF file.
This may be useful as an example of the minimum logic needed to parse
JPEG markers.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
*jidctfst.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 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcapistd.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.
 *
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 *
 * If you use this file, you must be sure that NEED_FAR_POINTERS is defined
 * if you compile in a small-data memory model; it should NOT be defined if
 * you use a large-data memory model. This file is not recommended if you
 * are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
 * Also, this code will NOT work if struct fields are aligned on greater than
 * 2-byte boundaries.
 *
 * Based on code contributed by Ge' Weijers.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2018 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: N\times N
* (N=1...16), 2N\times N, and N\times 2N (N=1...8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an N\times N 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 N\times N 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.
*/
/*
 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary 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.
 */

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 * virtual arrays;
 */
* * control logic for swapping virtual arrays between main memory and
* backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/ *
* djepg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
*djepg [options] inputfile outputfile
*djepg [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
*djepg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/djpeg.c
No license file was found, but licenses were detected in source scan.

/ *
* cdjpeg.c
Copyright (C) 1991-1997, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains common support routines used by the IJG application
programs (cjpeg, djpeg, jpegtran).

Found in path(s):
/opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/cdjpeg.c
No license file was found, but licenses were detected in source scan.

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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcprepct.c
No license file was found, but licenses were detected in source scan.

Copyright (C) 1991-1996, Thomas G. Lane.
Modified 2019 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains routines to read input images in 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdrle.c
No license file was found, but licenses were detected in source scan.

/ *
* jdarith.c
* 
* 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdarith.c
No license file was found, but licenses were detected in source scan.

/ *
* jversion.h
* 
* Copyright (C) 1991-2020, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains software version identification.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jversion.h
No license file was found, but licenses were detected in source scan.

/ *
* jcmainct.c
* 
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
* jdmerge.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 code for merged upsampling/color conversion.
*
* This file combines functions from jsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time.  In the conversion equations
*\[ R = Y + K1 \times Cr \]
*\[ G = Y + K2 \times Cb + K3 \times Cr \]
*\[ B = Y + K4 \times Cb \]
* 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:
* YCC => RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases.  (For uncommon cases we fall back on the more
* general code in jsample.c and jdcolor.c.)
*/
/*
 * 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 MAXISAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBPLUS 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.
 */

/*
 * transupp.c
 *
 * Copyright (C) 1997-2019, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/transupp.c

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

IJG JPEG LIBRARY:  FILE LIST

Copyright (C) 1994-2019, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY
=================

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed
for a standard installation.
jjerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference
system include files.
jpegintr.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
version.h Version information.

Applications using the library should include jpeglib.h (which in turn
includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included
if the application needs to reference individual JPEG error codes. The
other include files are intended for internal use and would not normally
be included by an application program. (cjpeg/djpeg/etc do use jinclude.h,
since its function is to improve portability of the whole IJG distribution.
Most other applications will directly include the system include files they
want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by
an application program:

jcapimin.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapimin.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression
and decompression.
jcparam.c Compression parameter setting helper routines.
jctrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmainct.c Main buffer controller (preprocessor => JPEG compressor).
jcprect.c Preprocessor buffer controller.
jccoefct.c Buffer controller for DCT coefficient buffer.
jcolor.c Color space conversion.
jsample.c Downsampling.
jdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c: JPEG marker reading.
jd Huff.c: Huffman entropy decoding.
jdarith.c: Arithmetic entropy decoding.
jdctmgr.c: IDCT manager (IDCT implementation selection & control).
jdctint.c: Inverse DCT using slow-but-accurate integer method.
jdctfst.c: Inverse DCT using faster, less accurate integer method.
jdctflt.c: Inverse DCT using floating-point arithmetic.
jdsample.c: Upsampling.
jdcolor.c: Color space conversion.
jdmerge.c: Merged upsampling/color conversion (faster, lower quality).
jquant1.c: One-pass color quantization using a fixed-spacing colormap.
jquant2.c: Two-pass color quantization using a custom-generated colormap. Also handles one-pass quantization to an externally given map.
jdatasrc.c: Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c: Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c: Standard error handling routines (application replaceable).
jnemmgr.c: System-independent (more or less) memory management code.
jutils.c: Miscellaneous utility routines.

jnemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jnemnobs.c: "No backing store": assumes adequate virtual memory exists.
jmemansi.c: Makes temporary files with ANSI-standard routine tempfile().
jmemname.c: Makes temporary files with program-generated file names.
jmemdos.c: Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
jmemmac.c: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jnemdosa.asm80x86: assembly code support for jnemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

=================================
Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input.
rdppm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output.
wrppm.c PPM/PGM file output.
wrzle.c Utah RLE file output.
wrzrle.c Targa file output.

RDJPGCOM/WRJPGCOM

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
Documentation (see README for a guide to the documentation files):

README
Master documentation file.
*.txt
Other documentation files.
*.1
Documentation in Unix man page format.
change.log
Version-to-version change highlights.
example.c
Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure
Unix shell script to perform automatic configuration.
configure.ac
Source file for use with Autoconf to generate configure.
ltpmain.sh
Support scripts for configure (from GNU libtool).
config.guess
config.sub
decomp
missing
ar-lib
compile
install-sh
Install shell script for those Unix systems lacking one.
Makefile.in
Makefile input for configure.
Makefile.am
Source file for use with Automake to generate Makefile.in.
ckconfig.c
Program to generate jconfig.h on non-Unix systems.
jconfig.txt
Template for making jconfig.h by hand.
mak.*
Sample makefiles for particular systems.
jconfig.*
Sample jconfig.h for particular systems.
libjpeg.map
Script to generate shared library with versioned symbols.
libjpeg.pc.in
libjpeg.pc pkg-config file input for configure.
aclocal.m4
Macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test.*
Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/filelist.txt
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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jccoefct.c
No license file was found, but licenses were detected in source scan.

/ *
* jmemnobs.c
*

* Copyright (C) 1992-1996, Thomas G. Lane.
* Modified 2019 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 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 respected by this implementation.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemnobs.c
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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdcoefct.c

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

/*
 * jcparam.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcparam.c

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

/*
 * wrgif.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 GIF format.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
*/
/*
* This code is loosely based on ppmtogif from the PBMPPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrgif.c
No license file was found, but licenses were detected in source scan.

/ *
* jdinput.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdinput.c
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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jcdctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
Found in path(s):
* /opt/cola/permits/1103550007_1605777850.470/jpegsrvc-v9d.tar.gz/jpeg-9d/jmemansi.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/1103550007_1605777850.470/jpegsrvc-v9d.tar.gz/jpeg-9d/jerror.c
No license file was found, but licenses were detected in source scan.

/*! 
 * cdjpeg.h
 */

* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2019 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 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/1103550007_1605777850.470/jpegsrvc-v9d.tar.gz/jpeg-9d/cdjpeg.h
No license file was found, but licenses were detected in source scan.
* jdpostct.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* jdmarker.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 routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmac.c
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.

* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
  JPEG_INTERNALS part of jconfig.h.

* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
  instead of malloc and free. It accurately determines the amount of
  memory available by using CompactMem. Notice that if left to its
  own devices, this code can chew up all available space in the
  application's zone, with the exception of the rather small "slop"
  factor computed in jpeg_mem_available(). The application can ensure
  that more space is left over by reducing max_memory_to_use.

* Large images are swapped to disk using temporary files and System 7.0+'s
  temporary folder functionality.

* Note that jmemmac.c depends on two features of MacOS that were first
  introduced in System 7: FindFolder and the FSSpec-based calls.
  If your application uses jmemmac.c and is run under System 6 or earlier,
  and the jpeg library decides it needs a temporary file, it will abort,
  printing error messages about requiring System 7. (If no temporary files
  are created, it will run fine.)

* If you want to use jmemmac.c in an application that might be used with
  System 6 or earlier, then you should remove dependencies on FindFolder
  and the FSSpec calls. You will need to replace FindFolder with some
  other mechanism for finding a place to put temporary files, and you
  should replace the FSSpec calls with their HFS equivalents:

  * FSpDelete  ->  HDelete
  * FSpGetFInfo ->  HGetFInfo
  * FSpCreate  ->  HCreate
  * FSpOpenDF  ->  HOpen    *** Note: not HOpenDF ***
  * FSMakeFSSpec ->  (fill in spec by hand.)

  * (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
    which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
    ages-old problem of names starting with a period.)

* Contributed by Sam Bushell (jsam@iagu.on.net) and
  Dan Gildor (gyld@in-touch.com).

*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/jpegsrc-v9d-tar-gz/jpeg-9d/jmemmac.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and grayscale images.

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

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications “cjpeg” and “djjpeg”, 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) 1991-2020, 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.

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 PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential
of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from http://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at http://www.w3.org/Graphics/JPEG/jfif3.pdf.

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

ARCHIVE LOCATIONS
==================

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
Open Source Used In SVO 12.3.0 10828


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS
================

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and
legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement.

IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/README

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

/ *
* cjpeg.c *
* *
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* `cjpeg [options] inputfile outputfile`
* `cjpeg [options] [inputfile]`
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* `cjpeg [options] -outfile outputfile inputfile`
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.h
*
* Copyright (C) 1997-2019, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/transupp.h
No license file was found, but licenses were detected in source scan.

/*
* cerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/cderror.h
No license file was found, but licenses were detected in source scan.

/
* jquant1.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jquant1.c
No license file was found, but licenses were detected in source scan.

/
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrbmp.c

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

/*
* jddctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jddctmgr.c

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

/ *
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jmemname.c

No license file was found, but licenses were detected in source scan.
/*
 * jpegtran.c
 *
 * Copyright (C) 1995-2019, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The 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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/wrppm.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2019, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.
The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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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 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is
used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
  jpeg_start_compress(...);
  while (scan lines remain to be written)
  jpeg_write_scanlines(...);
  jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
  jpeg_start_decompress(...);
  while (scan lines remain to be read)
  jpeg_read_scanlines(...);
  jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an
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 = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.
1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is:

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
```

...
exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_width	Width of image, in pixels
image_height	Height of image, in pixels
input_components	Number of color channels (samples per pixel)
in_color_space	Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.
Typical code for a 24-bit RGB source image is

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);
}
```

ejpeg_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:

```c
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 decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image.
You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.
If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.
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 cjpe.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_colorsapce (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_colorsapce() before rather than after.

jpeg_default_colorsapce (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorsapce(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization.
If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
    boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like 

    "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

**boolean arith_code**  
If TRUE, use arithmetic coding.  
If FALSE, use Huffman coding.

**int block_size**  
Set DCT block size. All N from 1 to 16 are possible.  
Default is 8 (baseline format).  
Larger values produce higher compression,  
smaller values produce higher quality.  
An exact DCT stage is possible with 1 or 2.  
With the default quality of 75 and default Luminance qtable the DCT+Quantization stage is lossless for value 1.  
Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the block_size parameter for compression works with version 8c and later.

**J_DCT_METHOD dct_method**  
Selects the algorithm used for the DCT step. Choices are:  
JDCT_ISLOW: slow but accurate integer algorithm  
JDCT_IFAST: faster, less accurate integer method  
JDCT_FLOAT: floating-point method  
JDCT_DEFAULT: default method (normally JDCT_ISLOW)  
JDCT_FASTEST: fastest method (normally JDCT_IFAST)  
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

**unsigned int scale_num, scale_denom**  
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above).  
(The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

**J_COLOR_SPACE jpeg_color_space**  
int num_components  
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using jpeg_set_colors() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero
(requires decoder with inverse color transform support, introduced with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling jpeg_set_colors(), because entropy table assignment in jpeg_set_colors() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling

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If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorsapce() 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_colorsapce() 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
int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height
Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

```
int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

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. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8.
Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.
Additional decompression parameters that the application may set include:

**J_DCT_METHOD dct_method**
Selects the algorithm used for the DCT step. Choices are the same
as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few
AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

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 JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorsace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

<table>
<thead>
<tr>
<th>Transformation</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGB &lt;=&gt; YCbCr</td>
</tr>
<tr>
<td>RGB =&gt; GRAYSCALE</td>
</tr>
<tr>
<td>RGB =&gt; BG_YCC</td>
</tr>
<tr>
<td>YCbCr =&gt; GRAYSCALE</td>
</tr>
<tr>
<td>YCbCr =&gt; BG_YCC</td>
</tr>
<tr>
<td>CMYK =&gt; YCCK</td>
</tr>
</tbody>
</table>

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure
that these are written correctly, or omitted if the JPEG file's color space
is not one of the ones supported by the interchange standards.

jpeg_set_colorspace() will set the compression parameters to include or omit
the APPn markers properly, so long as it is told the truth about the JPEG
color space. For example, if you are writing some random 3-component color
space without conversion, don't try to fake out the library by setting
in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.

You may want to write an APPn marker of your own devising to identify
the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.

jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot
"fix" this in the library by inverting the data during the CMYK<=>YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
the importance of the message; you can control the verbosity of the
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need.
This is accomplished by calling jpeg_std_error() as usual, but then overriding
some of the method pointers in the jpeg_error_mgr struct, as illustrated by
example.c.

All of the error handling routines will receive a pointer to the JPEG object
(a j_common_ptr which points to either a jpeg_compress_struct or a
jpeg_decompress_struct; if you need to tell which, test the is_decompressor
field). This struct includes a pointer to the error manager struct in its
"err" field. Frequently, custom error handler routines will need to access
additional data which is not known to the JPEG library or the standard error
handler. The most convenient way to do this is to embed either the JPEG
object or the jpeg_error_mgr struct in a larger structure that contains
additional fields; then casting the passed pointer provides access to the
additional fields. Again, see example.c for one way to do it. (Beginning
with IJG version 6b, there is also a void pointer "client_data" in each
JPEG object, which the application can also use to find related data.
The library does not touch client_data at all.)
The individual methods that you might wish to override are:

**error_exit (j_common_ptr cinfo)**
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

**output_message (j_common_ptr cinfo)**
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

**format_message (j_common_ptr cinfo, char * buffer)**
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message
language.

**emit_message (j_common_ptr cinfo, int msg_level)**
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table. The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
err->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination
manager" module. The default destination manager just writes the data to a
memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source
manager" to obtain the compressed data; you can provide your own source
manager if you want the data to come from somewhere other than a memory
buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the
destination or source manager provides a work buffer, and the library invokes
the manager only when the buffer is filled or emptied. (You could define a
one-character buffer to force the manager to be invoked for each byte, but
that would be rather inefficient.) The buffer's size and location are
controlled by the manager, not by the library. For example, the memory
source manager just makes the buffer pointer and length point to the original
data in memory. In this case the buffer-reload procedure will be invoked
only if the decompressor ran off the end of the datastream, which would
indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally
"char" or "unsigned char". On a machine where char is not exactly 8 bits
wide, you must define JOCTET as a wider data type and then modify the data
source and destination modules to transcribe the work arrays into 8-bit units
on external storage.

A data destination manager struct contains a pointer and count defining the
next byte to write in the work buffer and the remaining free space:

    JOCTET * next_output_byte; /* => next byte to write in buffer */
    size_t free_in_buffer; /* # of byte spaces remaining in buffer */
The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.
term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.

I/O suspension
-------------

Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want
control to return to the outer loop, rather than expecting that the buffer can
be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we
describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement
a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application
and the data source or destination manager; you will always need a custom
source/destination manager. (Please read the previous section if you haven't
already.) The basic idea is that the empty_output_buffer() or
fill_input_buffer() routine is a no-op, merely returning FALSE to indicate
that it has done nothing. Upon seeing this, the JPEG library suspends
operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the
whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If
fill_input_buffer() knows that no more data is available, it can set the
pointer/count to point to a dummy EOI marker and then return TRUE just as
though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers;
instead it will backtrack to the start of the marker and reprocess the whole
marker next time. Hence the input buffer must be large enough to hold the
longest standard marker in the file. Standard JPEG markers should normally
not exceed a few hundred bytes each (DHT tables are typically the longest).
We recommend at least a 2K buffer for performance reasons, which is much
larger than any correct marker is likely to be. For robustness against
damaged marker length counts, you may wish to insert a test in your
application for the case that the input buffer is completely full and yet
the decoder has suspended without consuming any data --- otherwise, if this
situation did occur, it would lead to an endless loop. (The library can't
provide this test since it has no idea whether "the buffer is full", or
even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn
markers, but these are handled specially: they are either saved into allocated
memory, or skipped over by calling skip_input_data(). In the former case,
suspension is handled correctly, and in the latter case, the problem of
buffer overrun is placed on skip_input_data's shoulders, as explained above.
Note that if you provide your own marker handling routine for large markers,
you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked
list of buffer areas, so as to avoid data copying. This can be handled by
having empty_output_buffer() or fill_input_buffer() set the pointer and count
to reference the next available buffer; FALSE is returned only if no more
buffers are available. Although seemingly straightforward, there is a
pitfall in this approach: the backtrack that occurs when FALSE is returned
could back up into an earlier buffer. For example, when fill_input_buffer()
is called, the current pointer & count indicate the backtrack restart point.
Since fill_input_buffer() will set the pointer and count to refer to a new
buffer, the restart position must be saved somewhere else. Suppose a second
call to fill_input_buffer() occurs in the same library call, and no
additional input data is available, so fill_input_buffer must return FALSE.
If the JPEG library has not moved the pointer/count forward in the current
buffer, then *the correct restart point is the saved position in the prior
buffer*. Prior buffers may be discarded only after the library establishes
a restart point within a later buffer. Similar remarks apply for output into
a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call,
so any skipped data can be permanently discarded. You still have to deal
with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:
To create a progressive JPEG file (or a multiple-scan sequential JPEG file),
set the scan_info cinfo field to point to an array of scan descriptors, and
perform compression as usual. Instead of constructing your own scan list,
you can call the jpeg_simple_progression() helper routine to create a
recommended progression sequence; this method should be used by all
applications that don't want to get involved in the nitty-gritty of
progressive scan sequence design. (If you want to provide user control of
scan sequences, you may wish to borrow the scan script reading code found
in rdswitch.c, so that you can read scan script files just like cjpeg's.)
When scan_info is not NULL, the compression library will store DCT'd data
into a buffer array as jpeg_write_scanlines() is called, and will emit all
the requested scans during 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:

```c
 do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
```
... jpeg_finish_output() 
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This 
arrangement makes it simple to use higher-quality decoding parameters 
for the final pass. But if you don't want to use special parameters for 
the final pass, the right loop logic is like this:

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);

    ... jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to 
be the last one, so it's not necessary to have reached EOF before starting 
the final output pass; rather, what you want to test is whether the output 
pass was performed in sync with the final input scan. This form of the loop 
will avoid an extra output pass whenever the decoder is able (or nearly able) 
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, 
then find that much or all of the file has arrived before you can complete 
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code 
from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) 
In this situation you may wish to abort the current display pass and start a 
new one using the newly arrived information. To do so, just call 
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete 
scan arrives during an output pass; this can be detected by noting 
JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This 
idea should be employed with caution, however, since the display process 
might never get to the bottom of the image before being aborted, resulting 
in the lower part of the screen being several passes worse than the upper. 
In most cases it's probably best to abort an output pass only if the whole 
file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using 
the current input scan number for the output target scan number; if a 
higher-quality final pass is to be done, it should be started (aborting any 
incomplete output pass) as soon as the end of file is received. However, 
many other strategies are possible. For example, the application can examine 
the parameters of the current input scan and decide whether to display it or 
not. If the scan contains only chroma data, one might choose not to use it 
as the target scan, expecting that the scan will be small and will arrive
quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)

* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.

* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)

* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().

  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output().

  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win
during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* *Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.)

You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant: Fixed color cube colormap
- enable_external_quant: Externally-supplied colormap
- enable_2pass_quant: Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial
switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it’s a bit klugy, but it’s necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and
JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of
tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++)
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++)
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++)
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source
buffer at the end of one image would be discarded, causing you to lose the
start of the next image.) When you use this method, stored tables are
automatically carried forward, so some of the images can be abbreviated images
that depend on tables from earlier images.

If you intend to write a series of images into a single destination file,
you might want to make a specialized data destination module that doesn't
flush the output buffer at term_destination() time. This would speed things
up by some trifling amount. Of course, you'd need to remember to flush the
buffer after the last image. You can make the later images be abbreviated
ones by passing FALSE to jpeg_start_compress().

Special markers
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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 APPh. (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 DCT_h_scaled_size valid samples, and there must be a multiple of DCT_v_scaled_size sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do
the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* 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.

ejpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*min_DCT_v_scaled_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*min_DCT_v_scaled_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
cinfo->comp_info[i].width_in_blocks * cinfo->comp_info[i].DCT_h_scaled_size samples per row
cinfo->comp_info[i].height_in_blocks * cinfo->comp_info[i].DCT_v_scaled_size 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 DCT_scaled_size 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 downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 “scanlines”. The last DCT block row of Y data is dummy, so it doesn’t matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for 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*min_DCT_v_scaled_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
-----------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications
include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically.
by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as

\[
\frac{\text{completed_passes} + (\text{pass_counter}/\text{pass_limit})}{\text{total_passes}}
\]

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

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it’s a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be
somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12.

Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.) Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your
own DCT quantization tables; the existing quality-scaling code has been
developed for 8-bit use, and probably doesn't generate especially good tables
for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined
by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we
expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve
performance or reduce memory space by tweaking the various typedefs in
jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s
is quite slow; consider trading memory for speed by making JCOEF, INT16, and
UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make JSAMPLE be int unless you have lots of memory
to burn.

You can reduce the size of the library by compiling out various optional
functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library;
the standard error message table occupies about 5Kb. This is particularly
reasonable for embedded applications where there's no good way to display
a message anyway. To do this, remove the creation of the message table
/jpeg_std_message_table[] from jerror.c, and alter format_message to do
something reasonable without it. You could output the numeric value of the
message code number, for example. If you do this, you can also save a couple
more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing;
you don't need trace capability anyway, right?

Portability considerations
--------------------------

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
charis at least 8 bits wide
shortis at least 16 bits wide
intis at least 16 bits wide
longs at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will
work fine, although memory may be used inefficiently if char is much larger
than 8 bits or short is much bigger than 16 bits. The code should work
equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the
code work by modifying the typedefs in jmorecfg.h. However, you will probably
have difficulty if int is less than 16 bits wide, since references to plain
int abound in the code.

char can be either signed or unsigned, although the code runs faster if an
unsigned char type is available. If char is wider than 8 bits, you will need
to redefine JOCTET and/or provide custom data source/destination managers so
that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII
dependencies in file-header manipulation; so does cjpeg's select_file_type()
routine.

The JPEG library does not rely heavily on the C library. In particular, C
stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more
heavily dependent on stdio.) malloc and free are called only from the memory
manager "back end" module, so you can use a different memory allocator by
replacing that one file.

The code generally assumes that C names must be unique in the first 15
characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
--------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium"
memory models (i.e., data pointers are 16 bits unless explicitly declared
"far"; code pointers can be either size). You may be able to use small
model to compile cjpeg or djpeg by itself, but you will probably have to use
medium model for any larger application. This won't make much difference in
performance. You *will* take a noticeable performance hit if you use a
large-data memory model (perhaps 10%-25%), and you should avoid "huge" model
if at all possible.
The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
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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/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcinit.c
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/*
 * jcarith.c
 *
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1103550007_1605777850.47/0/jpegsrc-v9d-tar-gz/jpeg-9d/jcarith.c

1.905 libxext 1.3.3-r0.0

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effectively convey the exclusion of warranty; and each file should
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<one line to give the library's name and a brief idea of what it
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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 /usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux distribution or on the World Wide Web at http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also obtain it by writing to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

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.

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

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
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
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> library to dictact to application writes what license they should
> be using.
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> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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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
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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
On Monday 28 January 2008, Nalin Dahyabhai wrote:
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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
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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

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

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> >
> > 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 l91Gxtptr020623
    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 11CoC5-0044Qt-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=flopped
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
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.

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Attachments: Message as HTML
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University of Missouri - Rolla Phone: (573) 341-6679
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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?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

----------

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.
The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

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

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11eOcX-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: <1b1b3fd8071010010908k11dac0afplf2dd471059ff9a4@nail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277TD2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd8071010010908k11dac0afplf2dd471059ff9a4@gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@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

1.909 device-mapper-multipath 0.4.9-133.el7
1.909.1 Available under license:

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

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1.919 jcl-over-slf4j 1.7.30

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```
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```

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1.922 jackson-databind 2.10.3

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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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1.928 dtc 1.3.0

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David Gibson <david@gibson.dropbear.id.au>
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1.929 e2fsprogs 1.42.9-19.el7

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

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

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

This 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

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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

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

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

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1.934 jackson-module-parameter-names

2.10.2

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d) Convey the object code by offering access from a designated
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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
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available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
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from the Corresponding Source as a System Library, need not be
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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.

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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
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
kprop/kpropd_rpc.c
kprop/kproplog.c

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include/GL/gl.h:

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

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Received: by rtcpan.develooper.com (Postfix, from userid 536)
id D3030FA; Mon, 18 Nov 2013 08:06:08 -0800 (PST)
Precedence: normal
Subject: [rt.cpan.org #90483] missing license file
From: "Alexandr Ciornii via RT" <bug-Text-ParseWords@rt.cpan.org>
Reply-To: bug-Text-ParseWords@rt.cpan.org
In-Reply-To: <rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>
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MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Content-Type: text/plain; charset="utf-8"
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Date: Mon, 18 Nov 2013 11:06:08 -0500
X-RedHat-Spam-Score: -1.9  (BAYES_00,SPF_PASS,URIBL_BLOCKED)
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Will do in next version.

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yes

--
Alexandr Ciornii, http://chorny.net

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1.968 jackson-jaxrs 2.10.2.1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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END OF TERMS AND CONDITIONS

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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.>Copyright (C) <year> <name of author>

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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 library, if
necessary. Here is a sample; alter the names:

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.977 perl-threads 1.87 4.el7

1.978 glib 2.56.1-8.el7
1.978.1 Available under license :

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Please see the file LICENCE in the PCRE distribution for licensing details.

End

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Version 2.1, February 1999

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

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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.

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

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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

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The ziggurat methods were derived from Julia.

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# PCG64

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PCG Random Number Generation for C.

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Written in 2015 by Sebastiano Vigna (vigna@acm.org)

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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# MT19937

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while 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.

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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,
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

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

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

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

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

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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
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:

- The modified work must itself be a software library.
- You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a “work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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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.

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:

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

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

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

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

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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
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@end enumerate

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```
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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:

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
```
That's all there is to it!

BEGIN{
    FS=":\";
    print "/\* \=> Do not modify this file!! \" \\
    \"-- 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\");\n";
} else if ($0 !~ /^[ ]*15\. Disclaimer of Warranty\[/ *$/)
{
    printf " printf_filtered (\"\";
    for (i = 1; i < NF; i++)
printf "%s\n\", $i;
    printf "%s\n\n\", $NF;
}

/^[ ]*15\. Disclaimer of Warranty\[/ *$/
print "\";
print "\"
print "static void\"
print "show_warranty_command (char *ignore, int from_tty);\"
print ":\"
}

/^[ ]*15\. Disclaimer of Warranty\[/ *$/
if (! ($0 ~ /^[ ]*END OF TERMS AND CONDITIONS\[/ *$/))
{

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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.

```python
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        # Get the current directory
        current_dir = os.getcwd()
        # Change to the gdb directory
        os.chdir(gdb_dir)
        # Get a list of all files in the directory
        files = os.listdir('.
```

```
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

    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
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
```

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

update_list = get_update_list()
update_files(update_list)

# Remind the user that some files need to be updated by HAND...
if BY_HAND:
    print
    print u"\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/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
 )

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

```
BY_HAND = (
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",
    "gdb/testsuite/gdb.base/step-line.c",
)
```

# Files containing multiple copyright headers. This script is only fixing the first one it finds, so we need to finish the update by hand.

```
MULTIPLE_COPYRIGHT_HEADERS = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)
```

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.

```
NOT_FSF_LIST = (
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb.gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accpf.p",
    "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/idecode_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_php.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",
)
if __name__ == "__main__":
    main()

1.986 logback-core 1.2.3

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1.988 groovy-jmx 2.5.9

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* /opt/cola/permits/1194549641_1629468192.14/0/groovy-jmx-2-5-9-sources-jar/groovy/jmx/builder/JmxBuilderException.java
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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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A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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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
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All Python releases are Open Source (see http://www.opensource.org for
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file (certdata.txt). This file can be found in the mozilla source tree:
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g dsp_name.c
lib/gssapi/mechglue/g dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_imp_sec_context.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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1.1002 cryptsetup 2.0.3 6.el7

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* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/InheritanceDeterminer.java

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* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
  jar/springfox/documentation/swagger2/mappers/ModelMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
  jar/springfox/documentation/swagger2/mappers/OAuth2AuthFactory.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
  jar/springfox/documentation/swagger2/mappers/ParameterMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
  jar/springfox/documentation/swagger2/configuration/Swagger2JacksonModule.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
  jar/springfox/documentation/swagger2/mappers/ApiKeyAuthFactory.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
  jar/springfox/documentation/swagger2/mappers/BasicAuthFactory.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
  jar/springfox/documentation/swagger2/mappers/VendorExtensionsMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
  jar/springfox/documentation/swagger2/mappers/SecurityMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
  jar/springfox/documentation/swagger2/mappers/SerializableParameterFactories.java

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* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/SecuritySchemeFactory.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/annotations/EnableSwagger2.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/ServiceModelToSwagger2Mapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/configuration/Swagger2DocumentationConfiguration.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactory.java

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* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/EnumMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/Properties.java

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jar/springfox/documentation/swagger2/web/Swagger2Controller.java

1.1005 sysklogd 1.5.1

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1.1016 hibernate-validator 6.0.18.Final

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 * Hibernate Validator, declare and validate application constraints
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/cfg/context/TypeConstraintMappingContext.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/internal/engine/valueextraction/ShortArrayValueExtractor.java
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jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfByte.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6.0.18-final-sources-5.jar/org/hibernate/validator/internal/engine/valueextraction/ReadOnlyMapPropertyValueExtractor.java
/*
 * Hibernate Validator, declare and validate application constraints
 *
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 */
/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * </p>
 * <p>
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> JSR 223</p>
 * (<"Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
* [ [@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc. * will be used as parameter names.
* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* </pre>
* }[@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) [ ... ]
* }
* </pre>
* </p>
* Can be specified on any method or constructor.
* </p>
* 
* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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* 
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*/
/**
* Retrieves constraint related meta data for the parameters of the given
* executable.
* 
* @param executable The executable of interest.
* 
* @return A list with parameter meta data for the given executable.
*/

Found in path(s):
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5-
  jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java
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  jar/org/hibernate/validator/internal/util/TypeHelper.java

1.1017 commons-modeler 2.0.1

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/ * /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io.netty.handler.codec.compression/Bzip2DivSufSort.java
/ * /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io.netty.handler.codec.compression/SnappyFramedDecoder.java
/ * /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io.netty.handler.codec.compression/Bzip2MoveToFrontTable.java
/ * /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io.netty.handler.codec.compression/Bzip2BlockCompressor.java
/ * /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io.netty.handler.codec.compression/Bzip2HuffmanStageEncoder.java
/ * /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io.netty.handler.codec.compression/Bzip2Constants.java
/ * /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io.netty.handler.codec.MessageAggregationException.java
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jar/io.netty.handler.codec.compression/Bzip2Encoder.java
/ * /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io.netty.handler.codec.ASCIIHeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/package-info.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/serialization/package-info.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/EncoderException.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/base64/Base64Encoder.java
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/**
 * Enumeration of supported Base64 dialects.
 */

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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4.1.45-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4.1.45-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4.1.45-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4.1.45-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4.1.45-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4.1.45-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4.1.45-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder Nano.java
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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4.1.45-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
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 */

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 */
The value of the length field in this example is \texttt{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)**

```
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

**BEFORE DECODE (14 bytes) | AFTER DECODE (12 bytes)**

```
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

**BEFORE DECODE (14 bytes) | AFTER DECODE (12 bytes)**

```
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

Because we can get the length of the content by calling \texttt{@link ByteBuf#readableBytes()}, you might want to strip the length field by specifying \texttt{initialBytesToStrip}. In this example, we specified \texttt{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)**

```
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

**BEFORE DECODE (14 bytes) | AFTER DECODE (12 bytes)**

```
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
```

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 \texttt{lengthAdjustment}. Because the length value in this example message is always greater than the body length by \texttt{2}, we specify \texttt{2} as \texttt{lengthAdjustment} for compensation.
* <pre>
  * lengthFieldOffset = 0
  * lengthFieldLength = 2
  * <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
  * initialBytesToStrip = 0
  *
  * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
  *
  | Length | Actual Content |
  ----+----------------+
  | 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.

* <pre>
  * <b>lengthFieldOffset</b> = 2 (= the length of Header 1)
  * <b>lengthFieldLength</b> = 3
  * lengthAdjustment = 0
  *
  * BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  *
  | Header 1 | Length | Actual Content |
  ----+----------+----------------+
  | 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.

* <pre>
  * lengthFieldOffset = 0
  * lengthFieldLength = 3
  * <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
  *
  * BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
  *
  | Length | Header 1 | Actual Content |
  ----+----------+----------------+
  | 0x0000C | 0xCAFE  | "HELLO, WORLD" |
  *
  * </pre>
*
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 `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` 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 `0` for `initialBytesToSkip`.

<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
<th>initialBytesToStrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x000C</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xFE</td>
<td></td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

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 `lengthAdjustment`. 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.

<table>
<thead>
<tr>
<th>lengthFieldOffset</th>
<th>lengthFieldLength</th>
<th>lengthAdjustment</th>
<th>initialBytesToStrip</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>-3</td>
<td>3</td>
</tr>
</tbody>
</table>

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xCA</td>
<td>0x0100</td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HDR1</th>
<th>Length</th>
<th>HDR2</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0xFE</td>
<td></td>
<td>0xFE</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
* @see LengthFieldPrepender
*/

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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
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jar/io/netty/handler/codec/compression/Crc32c.java
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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeadersImpl.java

**1.1019 python-requests 2.18.4**

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 * </pre>
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 */

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* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-jar/google/api/service.proto

1.1022 apache-log4j 2.16.0

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